

GenCore version 5.1.6
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GenCore version 5.1.6

protein - protein search, using sw model

on: December 3, 2003, 11:48:05 ; Search time 26:33:33 Seconds
(without alignments)

58.797 Million cell updates/sec

file: US-03-912-414-2

rfet score: 45

quence: 1 WTRWTF 6

oring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

arched: 830525 seqs, 258052604 residues

tal number of hits satisfying chosen parameters: 3526

minimum DB seq length: 0

maximum DB seq length: 15

st-processing: Minimum Match 0%
Maximum Match 100%
Listing First 45 summaries

1: sp_archea:*

כונת ציון

```

sp_human:*
sp_invertebrate:*
sp_mammal:*
sp_mhc:*
sp_organelle:*
sp_phage:*
sp_plant:*
sp_rhodant:*
sp_virus:*

```

RESULT 1
Q8SHF0
ID Q8SHF0
AC Q8SHF0
DT 01-
DT 01-
DT 01-
DE Cyt

ne total

SUMMARIES	Recruitment				
	Query	March	Length	DR	TD
result	score	score	length	DR	TD
None	None	None	None	None	None

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1 28 62 3 9 8 CASHED 088460 Chamaeleo

Query Match	Score 28;	DB 8;	Length 9;
Best Local Similarity	62.2%		
Marches	75.0%	Pred. No.	8.3e+05;
3: Conservative	1:	Mismatches	0;
		Indels	0;
		Gaps	0;

DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
 DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
 DE Cytochrome c oxidase subunit I (Fragment).
 GN COI.
 OS *Varanus jobiensis*.
 OG Mitochondrion.
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Lepidosauria; Squamata; Scleroglossa; Anguimorpha;
 OC *Varanus*.
 RN [1] NCBI_TaxID:169843;
 RP SEQUENCE FROM N.A.
 RA AST J.C.;
 RT "Mitochondrial DNA evidence and evolution in Varanoidea (Squamata)." ;
 RL Cladistics 17:0-0(2001).
 DR EMBL; AF0470507; AAL0075.1; -.
 KW Mitochondrion.
 FT NON TER 8 8
 SEQUENCE 8 AA; 1144 MW; EFD729DB436411A6 CRC64;
 Query Match 53.3%; Score 24; DB 8; Length 8;
 Best Local Similarity 75.0%; Pred. No. 8.3e+05;
 Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 Qy 3 RWHF 6
 3 RWF 6
 3 RWYF 6

RESULT 3
 ID P92632 PRELIMINARY; PRT; 10 AA.
 AC P92632;
 DT 01-MAY-1997 (TrEMBLrel. 03, Last sequence update)
 DT 01-NOV-1998 (TrEMBLrel. 08, Last annotation update)
 DE Cytochrome c oxidase subunit I (Fragment).
 GN COI.
 OS *Bremia grammica*.
 OG Mitochondrion.
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Lepidosauria; Squamata; Scleroglossa; Scincomorpha; Lacertoidae;
 OC *Bremia*.
 RN NCBI_TaxID:52179;
 RP SEQUENCE FROM N.A.
 RX MEDLINE=97153826; PubMed=9000751;
 RA Macey J.R.; Larson A.; Ananjeva N.B.; Papenfuss T.J.;
 RT "Two novel gene orders and the role of light-strand replication in
 rearrangement of the vertebrate mitochondrial genome." ;
 RT Structures of mitochondrial transfer RNAs." ;
 RL Mol. Biol. Evol. 14:31-104(1997).
 DR EMBL; U71331; ARB48277.1; -.
 KW Mitochondrion.
 FT NON TER 10 10
 SEQUENCE 10 AA; 1288 MW; SB358009D3640057 CRC64;
 Query Match 53.3%; Score 24; DB 8; Length 10;
 Best Local Similarity 60.0%; Pred. No. 7.5e+02;
 Matches 3; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 VWHF 6
 2 :|||
 2 IRWFF 8

RESULT 4
 Q9TG41

DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
 DE Cytochrome c oxidase subunit I (Fragment).
 GN COI.
 OS *Opisaurus apodus*.
 OG Mitochondrion.
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Lepidosauria; Squamata; Scleroglossa; Anguimorpha;
 OC *Opisaurus*.
 RN [1] NCBI_TaxID:102191;
 RP SEQUENCE FROM N.A.; PubMed=10413621;
 RX MEDLINE=99343613;
 RA Macey J.R.; Schulz J.A.; II, Larson A.; Tuneyev B.S.; Orlov N.;
 RA Papenfuss T.J.;
 RT "Molecular phylogenetics, tRNA evolution, and historical biogeography
 in anguid lizards and related taxonomic families." ;
 RT EMBL; AF085623; ADD51559.1; -.
 DR EMBL; AF085623; ADD51559.1; -.
 KW Mitochondrion.
 FT NON TER 10 10
 SEQUENCE 10 AA; 1239 MW; 1A3580C7336412C0 CRC64;

RESULT 5
 Q9AVJ4
 ID Q9AVJ4 PRELIMINARY; PRT; 8 AA.
 AC Q9AVJ4;
 DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
 DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
 DE Cytochrome c oxidase subunit I (Fragment).
 GN COI.
 OS *Varanus bengalensis nebulosus*.
 OG Mitochondrion.
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Lepidosauria; Squamata; Scleroglossa; Anguimorpha;
 OC *Varanidae*; *Varanus*.
 RN NCBI_TaxID:169827;
 RP SEQUENCE FROM N.A.
 RA AST J.C.;
 RT "Mitochondrial DNA evidence and evolution in Varanoidea (Squamata)." ;
 RT Cladistics 17:0-0(2001)
 RL EMBL; AR407432; AR407431; -.
 KW Mitochondrion.
 FT NON TER 8 8
 SEQUENCE 8 AA; 1053 MW; E8B5B9C733640056 CRC64;

Query Match 48.9%; Score 22; DB 8; Length 8;
 Best Local Similarity 60.0%; Pred. No. 8.3e+05;
 Matches 3; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 VWHF 6
 2 :|||
 2 IRWLF 6

RESULT 6
 P79940
 ID P79940 PRELIMINARY; PRT; 8 AA.
 AC P79940;
 DT 01-MAY-1997 (TrEMBLrel. 03, Last sequence update)

Fri Dec 5 08:35:23 2003

DT 01-MAY-1997 (TREMBLrel. 03; Last sequence update)
 DT 01-DEC-2001 (TREMBLrel. 19; Last annotation update)
 DE XM1-4 protein (Fragment).
 OS Xenopus laevis (African clawed frog).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Amphibia; Batrachia; Anura; Mesobatrachia; Pipidae;
 OC Xenopodinae; Xenopus.
 OX NCBI_TaxID:8335;

RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=97202105; PubMed=9049632;
 RA Montgomer S., Moskov J.J., Murynski K., North C., Druck T.,
 RA Montgomery J.C., Ruebner K., Daar I.O., Buchberg A.M.;
 RT "Identification of a conserved family of Meis1-related homeobox
 genes.";
 RL Genome Res. 7:142-156 (1997).
 DR EMBL; U6389; AAB1919.1; -.
 DR TRANSFAC; T03410; -.
 FT NON TER 1 1
 SQ SEQUENCE AA; 1187 MW; 278B51F37B11F40B CRC64;
 Query Match 48.9%; Score 22; DB 13; Length 8;
 Best Local Similarity 66.7%; Pred. No. 8.3e+05;
 Matches 2; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 Qy 4 WHF 6
 |||:
 Db 5 WHY 7

RESULT 7
 Q9B4X0 PRELIMINARY; PRT; 10 AA.
 ID Q9B4X0;
 AC Q9B4X0;
 DT 01-JUN-2001 (TREMBLrel. 17; Created)
 DT 01-JUN-2001 (TREMBLrel. 17; Last sequence update)
 DT 01-JUN-2001 (TREMBLrel. 17; Last annotation update)
 DB Cytochrome c oxidase subunit 1 (Fragment).
 GN COI.
 OS Notophthalmus viridescens (Eastern newt) (Triturus viridescens).
 OG Mitochondrion.
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Amphibia; Batrachia; Caudata; Salamandridae;
 OC Notophthalmus.
 OX NCBI_TaxID:8316;

RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=21175761; PubMed=11277635;
 RA Weisrock D.W., Macey J.R., Ugurlas I.H., Larson A., Papenfuss T.J.,
 RT "Molecular Phylogenetics and Historical Biogeography among
 Salamanders of the 'True' Salamander Clade: Rapid Branching of
 Numerous Highly Divergent Lineages in *Mertensia* luschani Associated
 with the Rise of Anatolia";
 RT "Phylogenetic Evidence for the Age of Anatolia";
 RL EMBL; AF296616; EAAK30305.1; -.
 KW Mitochondrion.
 FT NON TER 10
 SQ SEQUENCE 10 AA; 1298 MW; 03D380C733640050 CRC64;
 Query Match 48.9%; Score 22; DB 8; Length 10;
 Best Local Similarity 60.0%; Pred. No. 1.5e+03;
 Matches 3; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 VRWFF 6
 |||:
 Db 4 IRWLF 8

RESULT 8
 Q958L2 PRELIMINARY; PRT; 10 AA.
 ID Q958L2;
 AC Q958L2;
 DT 01-DEC-2001 (TREMBLrel. 19; Created)

DT 01-DEC-2001 (TREMBLrel. 19; Last sequence update)
 DE Cytochrome c oxidase subunit 1 (Fragment).
 GN COI.
 OS Rana temporaria (European common frog).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Amphibia; Batrachia; Anura; Neobatrachia; Ranidae; Rana.
 OX NCBI_TaxID:8407;

RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=21184280; PubMed=11286498;
 RA Macey J.R., Strasburg J.L., Brisson J.A., Vredenburg V.T.,
 RA Jennings M., Larson A.;
 RT "Molecular Phylogenetics of Western North American Frogs of the Rana
 boylei Species Group.,";
 RT Mol. Phylogenet. Evol. 19:131-143 (2001).
 RL EMBL; AF314018; AAK56874.1; -.
 KW Mitochondrion.
 FT NON TER 10
 SQ SEQUENCE 10 AA; 1354 MW; COD380C9D36411A9 CRC64;

Query Match 48.9%; Score 22; DB 8; Length 10;
 Best Local Similarity 50.0%; Pred. No. 1.5e+03;
 Matches 3; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 WVRWFF 6
 |||:
 Db 3 FTRWFF 8

RESULT 9
 Q958L8 PRELIMINARY; PRT; 10 AA.
 ID Q958L8;
 AC Q958L8;
 DT 01-DEC-2001 (TREMBLrel. 19; Created)
 DT 01-DEC-2001 (TREMBLrel. 19; Last sequence update)
 DT 01-DEC-2001 (TREMBLrel. 19; Last annotation update)
 DB Cytochrome c oxidase subunit I (Fragment).
 GN COI.
 OS Rana catesbeiana (Bull frog).
 OG Mitochondrion.
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Amphibia; Batrachia; Anura; Neobatrachia; Ranidae; Rana.
 OX NCBI_TaxID:8400;

RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=21184280; PubMed=11286498;
 RA Macey J.R., Strasburg J.L., Brisson J.A., Vredenburg V.T.,
 RA Jennings M., Larson A.;
 RT "Molecular Phylogenetics of Western North American Frogs of the Rana
 boylei Species Group.,";
 RT Mol. Phylogenet. Evol. 19:131-143 (2001).
 RL EMBL; AF314016; AAK56868.1; -.
 KW Mitochondrion.
 FT NON TER 10
 SQ SEQUENCE 10 AA; 1354 MW; COD380C9D36411A9 CRC64;

Query Match 48.9%; Score 22; DB 8; Length 10;
 Best Local Similarity 50.0%; Pred. No. 1.5e+03;
 Matches 3; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 WVRWFF 6
 |||:
 Db 3 FTRWFF 8

RESULT 10
 Q958K6 PRELIMINARY; PRT; 10 AA.
 ID Q958K6;
 AC Q958K6;
 DT 01-DEC-2001 (TREMBLrel. 19; Created)
 DT 01-DEC-2001 (TREMBLrel. 19; Last sequence update)

01-DEC-2001 (TREMBLrel. 1.19, Last annotation update)			
DE Cytochrome c oxidase subunit I (Fragment).	DE		
COI	COI		
Rana pretiosa.			
Mitochondrion.			
OG Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Amphibia; Batrachia; Anura; Neobatrachia; Ranidae; Rana.	OG		
NCBI - TaxID=65834;	NCBI		
[1] RN			
SEQUENCE FROM N.A.			
RELMEDLINE=21184280; PubMed=11286498;			
RX Macey J.R., Strabburg J.L., Brisson J.A., Vredenburg V.T., Jennings M., Larson A.,	RX		
RA "Molecular Phylogenetics of Western North American Frogs of the Rana boylii Species Group",	RA		
RT Mol. Phylogenet. Evol. 19:131-143 (2001).	RT		
RL EMBL; AF314020; AAK56880.1; -.	RL		
DR Mitochondrion.	DR		
KW NON TER 10 10 AA; 1354 MN; COD380C9D3641A9 CRC64;	KW		
FT SQ			
Query Match 48.9%; Score 22; DB 8; Length 10;			
Best Local Similarity 50.0%; Pred. No. 1.5e+03;			
Matches 3; Conservative 1; Mismatches 2; Indels 0; Gap			
Qy 1 WVRWF 6	Qy		
Db 3 FTRWF 8	Db		
RESULT 11 .			
RELMEDLINE=21184280; PubMed=11286498;			
RX Macey J.R., Strabburg J.L., Brisson J.A., Vredenburg V.T., Jennings M., Larson A.,	RX		
RA "Molecular Phylogenetics of Western North American Frogs of the Rana boylii Species Group",	RA		
RT Mol. Phylogenet. Evol. 19:131-143 (2001).	RT		
RL EMBL; AF314022; AAK56886.1; -.	RL		
DR Mitochondrion.	DR		
KW NON TER 10 10 AA; 1354 MN; COD380C9D3641A9 CRC64;	KW		
FT SQ			
Query Match 48.9%; Score 22; DB 8; Length 10;			
Best Local Similarity 50.0%; Pred. No. 1.5e+03;			
Matches 3; Conservative 1; Mismatches 2; Indels 0; Gap			
Qy 1 WVRWF 6	Qy		
Db 3 FTRWF 8	Db		
RESULT 12 .			
RELMEDLINE=21184280; PubMed=11286498;			
RX Macey J.R., Strabburg J.L., Brisson J.A., Vredenburg V.T., Jennings M., Larson A.,	RX		
RA "Molecular Phylogenetics of Western North American Frogs of the Rana boylii Species Group",	RA		
RT Mol. Phylogenet. Evol. 19:131-143 (2001).	RT		
RL EMBL; AF314022; AAK56886.1; -.	RL		
DR Mitochondrion.	DR		
KW NON TER 10 10 AA; 1354 MN; COD380C9D3641A9 CRC64;	KW		
FT SQ			
Query Match 48.9%; Score 22; DB 8; Length 10;			
Best Local Similarity 50.0%; Pred. No. 1.5e+03;			
Matches 3; Conservative 1; Mismatches 2; Indels 0; Gap			
Qy 1 WVRWF 6	Qy		
Db 3 FTRWF 8	Db		

XX SQ Sequence 6 AA;
 Query Match 75.6%; Score 34; DB 21; Length 6;
 Best Local Similarity 66.7%; Pred. No. 9.3e+05;
 Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 Qy 1 WYRWHF 6
 Db 1 WXXWHF 6

RESULT 7
 AAB01504 standard; peptide: 6 AA.
 ID AAB01504;
 AC XX
 XX DT 08-NOV-2000 (first entry)
 DE Peptide which binds to transcription factor E2F-1 DNA binding domain.
 XX DNA binding; transcription factor; E2F; E2F-1; cell cycle; DP-1;
 KW activation; transcription; apoptosis; proliferative disorder;
 KW psoriasis; restenosis.
 XX Synthetic.
 OS XX
 XX WO200044771-A1.
 PN XX
 PR 03-AUG-2000.
 PF 26-JAN-2000; 2000WO-GB000227.
 PR 25-JAN-1999; 99GB-0001710.
 PA (PROL-) PROLIFIX LTD.
 PI Mueller R, Kontermann RE, Montigiani S;
 XX WPI; 2000-532806/48.
 XX Peptides binding to the DNA binding domain of transcription factor E2F
 PT and inhibiting cell cycle progression, useful for the treatment of
 PT cancer
 XX Example; Page 26; 42pp; English.
 XX Peptides which bind to the DNA binding domain of transcription factor E2F and inhibit cell cycle progression may be useful as
 CC research agents to investigate the interaction between E2F and DP-1,
 CC or the activation of transcription by E2F-1/DP-1 heterodimers. They
 CC may also be used for inducing apoptosis and/or cell cycle arrest in
 CC a cell, particularly for treatment of cancer or other proliferative
 CC disorders such as psoriasis and restenosis.
 XX Sequence 6 AA;

Query Match 75.6%; Score 34; DB 21; Length 6;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 2 VRWHF 6
 Db 2 VRWHF 6

RESULT 8
 AAR60429 ID AAR60429 standard; peptide; 8 AA.
 XX AC XX
 AC XX

RESULT 9
 AAR60444 ID AAR60444 standard; peptide; 8 AA.
 XX AC XX
 XX DT 25-MAR-2003 (updated)
 XX DT 30-MAR-1995 (first entry)
 DE Antiproliferative peptide to transplantable human B-cell lymphoma.

XX antiproliferative; transplant; B-cell lymphoma line SUP-B8; Burkitt's;
 KW inhibit clonal expansion; induce apoptosis; anti-idiotype; IgM lambda;
 KW inhibit cell proliferation; peptidomimetics; cell surface receptor;
 KW immunoglobulin superfamily; treatment; neoplasia; identification;
 KW induce replication; therapy; clonal anergy; modulate tyrosine kinase.
 XX Synthetic.

XX WO9418345-A1.
 XX 18-AUG-1994.
 XX 04-FEB-1994; 94WO-US01319.
 XX 05-FEB-1993; 93US-0014442.
 XX 15-NOV-1993; 93US-0153341.
 PA (AFFY-) AFFYMAX TECHNOLOGIES NY.
 PA (STRD) UNIV LELAND STANFORD JUNIOR.
 XX Bhatt RR, Dower WJ, Levy R, Renschler MF;
 XX DR; 1994-279762/34.
 XX PT Identifying anti-proliferative peptide(s) which specifically bind
 PT to immunoglobulin super-family species idiotype - esp. to inhibit
 PT B-cell lymphoma and leukocytic leukaemia cell proliferation, for
 PT anti-idiotype therapy
 XX Claim 7; Page 45; 69pp; English.
 XX AAR6040-73 are peptide ligands which bind to purified IgM lambda
 CC receptor of the human Burkitt's lymphoma cell line SUP-B8. Peptides
 CC AAR60414 to AAR60473 were biotinylated and linked to streptavidin.
 CC The peptides were identified with the use of filamentous phage
 CC libraries displaying random peptides. Corresponding synthetic
 CC peptides bound specifically to this Ig receptor, and blocked the
 CC binding of an anti-idiotype antibody. The ligands, when conjugated
 CC to form dimers or trimers, induced cell death by apoptosis in
 CC vitro at nanomolar concentrations. This effect was associated with
 CC the specific stimulation of intracellular protein tyrosine
 CC phosphorylation. The peptides of the invention can be used individually,
 CC as complexes of cross-linked peptides or can be conjugated to deliver
 CC toxins or radionuclides to neoplastic cells bearing the specific Ig
 CC receptor.
 CC (Updated on 25-MAR-2003 to correct PN field.)

XX Sequence 8 AA;

XX Query Match 75.6%; Score 34; DB 15; Length 8;

XX Best Local Similarity 80.0%; Pred. No. 9.3e+05;
 XX Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 WVRWH 5
 Db 3 WYRW 7

OS Synthetic.

XX Key
 FH Region.
 FT 1..3
 /note= "repeat region"
 FT Region.
 FT 4..6
 /note= "repeat region"
 XX ZA9200943-A.

XX PN
 XX 25-NOV-1992.
 XX PD
 XX 10-FEB-1992; 92ZA-00000943.

XX PR 11-FEB-1991; 91US-0658744.
 PA (PORR-) PORRO M.

XX PR
 PA Porro M;
 PI
 XX DR; 1993-094304/11.

XX X
 XX Peptide for treatment or prevention of toxic shock - comprises
 PT specified sequences of aminoacid(s) and analogs
 PT comprising sequences retro-orientated
 PS Example; Page 5; 39pp; English.

XX The (Group II) peptide is an example of a generic peptide of formula
 CC R-(Lys/Arg/His - Phe/Tyr/Trp - Leu/Ile/Val)ⁿ-R, where n = 1-100
 CC and each R is H, an amino acid residue or a fatty acid residue.
 CC The peptide is useful for treating or preventing septic shock,
 CC mixing with polymyxin B to reduce its toxicity; removing
 CC endotoxins from blood, sera or other fluids (in vivo or in
 CC vitro); controlling release of cytokines induced by endotoxins;
 CC as diagnostic reagents to detect and quantify toxins in blood
 CC or sera; preparing non-toxic antigenic complexes of lipid A or
 CC lipopolysaccharide (LPS); and for treating pertussis, bacterial
 CC meningitis and HIV-related infections. The usual dose is 10-100
 CC ug/kg/day, given parenterally. It binds to the same sites as
 CC polymyxin B, i.e. it inhibits all the toxic effects of lipid A. It
 CC has no antibiotic activity; does not lyse erythrocytes; has no
 CC toxicity in mice when injected at 50mg/kg and is relatively unstable
 CC against proteases.

XX Sequence 6 AA;

XX Query Match 68.9%; Score 31; DB 14; Length 6;
 XX Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 XX Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 WVRW 4
 Db 2 WVRW 5

RESULT 11

XX AAW28912 standard; peptide; 6 AA.
 XX ID AAW28912
 XX AC AAW28912;
 XX DT 20-JAN-1998 (first entry)
 XX DE Opioid Peptide.
 XX KW enkephalin; mu-opioid receptor ligand; agonist; antagonist.
 XX OS Synthetic.
 XX Key
 FT Modified-site 1
 /note= "N-acetyl Arg"

XX	US5919897-A.	Peptides binding to the DNA binding domain of transcription factor E2F and inhibiting cell cycle progression, useful for the treatment of cancer.
PN	06-JUL-1999.	PT
XX		PR
PD		PT
XX		PT
XX	07-JUN-1995;	95US-0488659.
PF		
XX	07-JUN-1995;	95US-0488659.
PR		
XX	(TORR-) TORREY PINES INST MOLECULAR STUDIES.	
PA		
XX	Dooley CT, Houghten RA;	
PI		
XX	WPI; 1999-394647/33.	
DR		
XX		
PT	New opioid peptides useful for blocking the peripheral effects of centrally acting pain killers such as morphine	
PT		
XX	Example 1; Column 8; 92pp; English.	
XX		
CC	The specification describes opioid peptides, in which each of the N atoms in the peptide backbone between respective amino acids is modified by permethylation, peracetylation, perbenzoylation and pernaphthaloylation. The peptides inhibit ligand binding to an opioid receptor. Specifically, the peptides inhibit the micro-selective opioid peptide enkephalin. The peptides can be used in vivo diagnostically to localize opioid receptor subtypes. They can be used to treat pathologies associated with other compounds which interact with the opioid receptor system. The peptides are especially useful for blocking the peripheral effects of centrally acting pain killers such as morphine. AAY23005-Y23024 represent opioid peptides of the invention, and are derived from the general sequence given in AAY23004.	
XX		
SQ	Sequence 6 AA;	
Query Match	68.9%; Score 31; DB 20; Length 6;	
Best Local Similarity	60.0%; Pred. No. 9.3e+05;	
Matches	3; Conservative 1; Mismatches 1; Indels 0; Gaps 0;	
Qy	1 WWRWH 5	
Db	1 WWRWH 6	
XX		
SQ	Sequence 6 AA;	
Query Match	68.9%; Score 31; DB 20; Length 6;	
Best Local Similarity	60.0%; Pred. No. 9.3e+05;	
Matches	3; Conservative 1; Mismatches 1; Indels 0; Gaps 0;	
Qy	1 WWRWH 5	
Db	2 WIGWH 6	
XX		
RESULT 14		
AA01507	AAB01507 standard; peptide; 6 AA.	
ID		
XX		
AC	AAB01507;	
XX		
DT	08-NOV-2000 (first entry)	
XX		
DE	Peptide which binds to transcription factor E2F-1 DNA binding domain.	
XX		
KW	DNA binding; transcription factor; E2F; E2F-1; cell cycle; DP-1;	
KW	activation; transcription; apoptosis; proliferative disorder;	
KW	psoriasis; restenosis.	
XX		
OS	Synthetic.	
XX		
PN	WO200044771-A1.	
XX		
PD	03-AUG-2000.	
XX		
PP	26-JAN-2000; 2000WO-GB00227.	
XX		
PR	26-JAN-1999; 99GB-0001710.	
XX		
PA	(PROL-) PROLIFIX LTD.	
XX		
PI	Mueller R, Kontermann RE, Montigiani S;	
XX		
DR	WPI; 2000-532806/48.	

CC surface-associated SPPC of TC. (I) has cytostatic activity and can be used in vaccine production and as a tumour-specific immunogenic response inducer. (II) is useful for treating 71 types of cancers or tumours in a subject, such as astrocytoma, fibrosarcoma, myxosarcoma, liposarcoma, oligodendroglioma, ependymoma, medulloblastoma, and primitive neural ectodermal tumour (PNET). (I) is useful as cancer immunogen including vaccines. (I) is useful for diagnostic and palliative use, for detecting or imaging cancer cells, and to monitor the course of amelioration of malignancy in an individual. AAM43707 to AAM47109 represent peptides which are used in the exemplification of the present invention.

XX Sequence 7 AA;

Query Match 68.9%; Score 31; DB 22; Length 7;

Best Local Similarity 66.7%; Pred. No. 9.3e+05; Matches 4; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

DB 1 WWRWF 6

Db 1 WWRWNF 6

RESULT 16

AAR86140

ID AAR86140 standard; peptide; 10 AA.

XX AC AAR86140;

XX DT 26-JUN-1996 (first entry)

XX DE Anti-ELAM-1 binding peptide #117.

XX DT 26-JUN-1996 (first entry)

XX DE Anti-ELAM-1 binding peptide #117.

XX DT 26-JUN-1996 (first entry)

XX DE Peptide mimetic; endothelial leukocyte adhesion molecule; ELAM; selectin;

XX KW receptor; leukocyte; vascular wall; endothelium; extravasation;

XX KW inflammation; sialyl Lewis; cell surface glycoprotein; HL60 cell.

XX OS Synthetic.

XX OS WO9531210-A1.

XX PR 11-MAY-1995; 95WO-US06315.

XX PR 11-MAY-1995; 94US-0241054.

XX PR 11-MAY-1995; 95WO-US06315.

XX PA (AFFY-) AFFYMAX TECHNOLOGIES NV.

XX PI Barrett RW, Cwirla SE, Dower WJ, Koller KJ, Lee J;

XX PI Martens CL, Ruhland-Fritsch B;

XX DR WPI; 1996-010687/01.

XX New peptide(s) that bind to endothelial leukocyte adhesion molecule 1 - useful for treating inflammation and other E-selectin mediated diseases

XX Disclosure: Page 17; 85pp; English.

XX Peptides AAR86024-R06236 are examples of peptides and their mimetics that bind to endothelial leukocyte adhesion molecule (ELAM)-1. This molecule is a member of the selectin family of receptors and is involved in binding of leukocytes to the vascular endothelial wall prior to extravasation of the leukocyte, e.g. to a site of inflammation.

XX The peptides bind pref. to E-selectin but may also bind L- or P-selectin, and can be used to treat conditions mediated by E-selectin, e.g. inflammatory conditions. The peptides have strong affinity for the selectin receptors and inhibit the binding of the sialyl Lewis (Sle-x) part of cell surface glycoproteins to E-selectin. The peptide are small, generally less than 2 kd, have an IC50 of up to 100 micromole against binding of HL60 cells to ELAM-1, have one or more peptide linkages replaced by CH2OC(O)NR, phosphonate, CH2NR, CON(R6), or NHCONH linkages where R = H or a lower alkyl and R6 = a lower alkyl.

XX The peptides may also have substituted N- and C-termini, e.g. succinimido, N-benzylloxycarbonyl or N-lower alkyl cpds.

XX Sequence 10 AA;

CC The peptides may also have substituted N- and C-termini e.g. CC succinimido, N-benzylloxycarbonyl or N-lower alkyl cpds.

XX Sequence 10 AA;

XX ID AAR86145 standard; peptide; 10 AA.

XX AC AAR86145;

XX DT 26-JUN-1996 (first entry)

XX DE Anti-ELAM-1 binding peptide #117.

XX DT 26-JUN-1996 (first entry)

XX DE Peptide mimetic; endothelial leukocyte adhesion molecule; ELAM; selectin;

XX KW receptor; leukocyte; vascular wall; endothelium; extravasation;

XX KW inflammation; sialyl Lewis; cell surface glycoprotein; HL60 cell.

XX OS Synthetic.

XX OS WO9531210-A1.

XX PR 10 23-NOV-1995.

XX PR 23-NOV

Query Match Score 31; DB 17; Length 10;
 Best Local Similarity 100.0%; Pred. No. 56;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 WYRW 4
 Db 6 WYRW 9

RESULT 19
 AAW63963 standard; peptide; 10 AA.

ID AAW63963

XX

AC AAW63963;

XX 25-MAR-2003 (updated)
 DT 02-OCT-1998 (first entry)

XX XX

DE ELAM-1 peptide mimetic #118.

XX XX

KW Endothelial leukocyte adhesion molecule 1; ELAM-1; inflammation;

KW selectin; diagnosis; mimetic.

XX XX

OS Location/Qualifiers
 Synthetic.
 Key 10 /note= "C-terminal Met is amidated"

FT Modified-site

FT /note= "C-terminal Met is amidated"

XX XX

OS US5728802-A.

PN XX

PD 17-MAR-1998.

XX XX

PR 12-MAY-1995; 95US-0439817.

XX XX

PR 12-MAY-1995; 95US-0439817.

XX XX

PR 06-MAY-1992; 92US-0881395.

XX XX

PR 05-MAY-1993; 93US-0057295.

XX XX

PR 11-MAY-1994; 94US-0241054.

XX XX

PA (AFFY-) AFFYMAX TECHNOLOGIES NV.

XX XX

PI Barrett RW, Cwirla SE, Dower WJ, Koller KJ, Lee J;

PI Martens CL, Ruhland-Fritsch B;

XX XX

DR WPI: 1998-249882/22.

XX XX

PR Peptide(s) or their mimetic(s) that bind to E-selectin - useful for, e.g. treating conditions mediated by E-selectin such as inflammatory conditions(s)

XX XX

PS Example 2; Column 93-94; 84pp; English.

XX XX

CC AAW63846-W64054 are peptides and peptide mimetics that bind selectins including endothelial leukocyte adhesion molecule 1 (ELAM-1), and can be used for blocking adhesion of leukocytes to the selectins. The peptides have applications for the treatment of conditions mediated by E-selectin, e.g. inflammatory conditions. They can also be used for diagnostic purposes, e.g. for identifying the vascular site of E-selectin in vivo or can be coupled to anti-inflammatory or other drugs.

CC (Updated on 25-MAR-2003 to correct PF field.)

XX XX

PS Sequence 10 AA;

XX XX

CC Peptides AAR86024-R86236 are examples of peptides and their mimetics that bind to endothelial leukocyte adhesion molecule (ELAM)-1. This molecule is a member of the selectin family of receptors and is involved in binding of leukocytes to the vascular endothelial wall prior to extravasation of the leukocyte, e.g. to a site of inflammation.

CC The peptides bind pref. to E-selectin but may also bind L- or

P-selectin, and can be used to treat conditions mediated by E-selectin, e.g. inflammatory conditions.

CC The peptides have strong affinity for the selectin receptors and inhibit the binding of the sialyl Lewis (SLe-x) part of cell surface glycoproteins to E-selectin. The peptide are small, generally less than 2 kD, have an IC50 of up to 100 micromole

CC against binding of HL60 cells to ELAM-1, have one or more peptide

CC linkages replaced by CH2OC(O)NR, phosphonate, CH2SO2NR, CH2R, CON(R6),

CC or NHCONH linkages where R = H or a lower alkyl and R6 = a lower alkyl.

CC The peptides may also have substituted N- and C-termini e.g.

CC succinimido, N-benzylloxycarbonyl or N-lower alkyl cpds.

XX XX

PS Sequence 10 AA;

XX XX

CC

CC

RESULT 18
 AAR86146 standard; peptide; 10 AA.

ID AAR86146

XX

AC AAR86146;

XX DT 26-JUN-1996 (first entry)

XX XX

DE Anti-ELAM-1 binding peptide #123.

XX XX

KW Peptide mimetic; endothelial leukocyte adhesion molecule; ELAM; selectin; receptor; leukocyte; vascular wall; endothelium; extravasation; inflammation; sialyl Lewis; cell surface glycoprotein; HL60 cell.

XX OS Synthetic.

XX XX

PN WO9531210-A1.

XX XX

PD 23-NOV-1995.

XX XX

PR 11-MAY-1995; 95WO-US06315.

XX XX

PR 11-MAY-1994; 94US-0241054.

XX XX

PA (AFFY-) AFFYMAX TECHNOLOGIES NV.

XX XX

PI Barrett RW, Cwirla SE, Dower WJ, Koller KJ, Lee J;

PI Martens CL, Ruhland-Fritsch B;

XX XX

DR WPI: 1996-010687/01.

XX XX

PT New peptide(s) that bind to endothelial leukocyte adhesion molecule 1 - useful for treating inflammation and other E-selectin mediated diseases

XX XX

PS Disclosure: Page 17; 85pp; English.

XX XX

CC Peptides AAR86024-R86236 are examples of peptides and their mimetics that bind to endothelial leukocyte adhesion molecule (ELAM)-1. This molecule is a member of the selectin family of receptors and is involved in binding of leukocytes to the vascular endothelial wall prior to extravasation of the leukocyte, e.g. to a site of inflammation. The peptides bind pref. to E-selectin but may also bind L- or P-selectin, and can be used to treat conditions mediated by E-selectin, e.g. inflammatory conditions. The peptides have strong affinity for the selectin receptors and inhibit the binding of the sialyl Lewis (SLe-x) part of cell surface glycoproteins to E-selectin. The peptide are small, generally less than 2 kD, have an IC50 of up to 100 micromole against binding of HL60 cells to ELAM-1, have one or more peptide linkages replaced by CH2OC(O)NR, phosphonate, CH2SO2NR, CH2R, CON(R6), or NHCONH linkages where R = H or a lower alkyl and R6 = a lower alkyl. The peptides may also have substituted N- and C-termini e.g. succinimido, N-benzylloxycarbonyl or N-lower alkyl cpds.

XX XX

PS Sequence 10 AA;

XX XX

CC

Example 2: Column 93-94; 84pp; English.
 AAW63046-W64054 are peptides and peptide mimetics that bind selectins including endothelial leukocyte adhesion molecule 1 (ELAM-1) and can be used for blocking adhesion of leukocytes to the selectins. The peptides have applications for the treatment of conditions mediated by E-selectin, e.g. inflammatory conditions. They can also be used for diagnostic purposes, e.g. for identifying the vascular site of E-selectin in vivo or can be coupled to anti-inflammatory or other drugs.
 (Indicated on 25-MAR-2003 to correct PP field)

Matches	4	Conservative	0	Mismatches	0	Indels	0	Gaps	0	DT	07-JUL-1993 (First entry)
WY	1	WYRW 4								XX	
Db	6	WYRW 9								DE	Peptide for treating septic shock.
										XX	
										KW	Toxic shock; blood endotoxin removal; serum; diagnostic reagent; cytolytic release control; treatment; pertussis; bacterial meningitis;
										KW	HIV related infections; polymyxin B; Group II.
										XX	
										OS	synthetic.

synthetic.
US5728802-A.
17-MAR-1998.

PF	12-MAY-1995;	95US-0439817.
XX		
PR	12-MAY-1995;	95US-0439817.
PR	06-MAY-1992;	92US-0881395.
PR	05-MAY-1993;	93US-0057295.
PR	11-MAY-1994;	94US-0241054.
XX		
(AFFY-) AFFYMAX TECHNOLOGIES		
PA		
XX	Barrett FW, Cwirla SE, Dow	
PI	Martens CL, Ruhland B;	
XX	DR	WPI; 1998-249882/22.
XX	PT	Peptide(s) or their mimetic(s)
PT	PT	e.g. treating conditions med
PT	PT	condition(s)
XX	PS	Example 2; Column 91-92; 84p
XX	CC	AAW3846-W64054 are peptides
CC	CC	including endothelial leuko
CC	CC	used for blocking adhesion o
CC	CC	have applications for the tr
CC	CC	E-selectin, e.g. inflammatory
CC	CC	diagnostic purposes, e.g. fo
CC	CC	in vivo or can be coupled to c
CC	CC	(Updated on 25-MAR-2003 to c
XX	SQ	Sequence 10 AA;
XX	Query Match	68.9%;
	Best Local Similarity	100.0%;
	Matches	4; Conservative
Qy	1	WWRW 4
Db	6	WWRW 9.
XX	RESULT 22	
XX	AAR37390	
ID	AAR37390	standard; peptide;
XX		
AC	AAR37390;	
XX		
DT	07-JUL-1993	(first entry)
DE		
XX		Peptide for treating septic
KW		toxic shock; blood endotoxin
KW		cytokine release control; tr
KW		HIV related infections; poly
OS		synthetic.
XX	Key	Location/Qua
FH	Region	1..3
FT		/note= "repe
FT		4..6
FT		/note= "repe
XX		
PN	ZA9200943-A.	
XX		
PD	25-NOV-1992.	
XX		
PF	10-FEB-1992;	92ZA-0000943.
XX		
PR	11-FEB-1991;	91US-0658744.
XX		
PA	(PORR/) PORRO M.	
XX	PORRO M;	

2X WPI: 1993-094304/11.
 DR New peptide for treatment or prevention of toxic shock - comprises
 XX specified sequences of aminoacid(s) and analogs
 PT comprising sequences retro-oriented
 PT Example; Page 5; 39PP; English.
 XX
 CC The (Group II) peptide is an example of a generic peptide of formula
 CC R-(Lys/Arg/His - Phe/Tyr/Trp - Leu/Ile/Val)_nR, where n = 1-100
 CC and each R is H, an amino acid residue or a fatty acid residue.
 CC The peptide is useful for treating or preventing septic shock,
 CC endotoxins from blood, sera or other fluids (in vivo or in
 vitro); controlling release of cytokines induced by endotoxins;
 CC as diagnostic reagents to detect and quantify toxins in blood
 CC or sera; preparing non-toxic antigenic complexes of lipid A or
 CC lipopolysaccharide (LPS); and for treating pertussis, bacterial
 CC meningitis and HIV-related infections. The usual dose is 10-100
 CC ug/kg/day. Given parenterally. It binds to the same sites as
 CC Polymyxin B, i.e. it inhibits all the toxic effects of lipid A. It
 CC has no antibiotic activity; does not lyse erythrocytes; has no
 CC toxicity in mice when injected at 50mg/kg and is relatively unstable
 CC against proteases.
 XX

Sequence 6 AA;

Query Match 66.7%; Score 30; DB 14; Length 6;
 Best Local Similarity 75.0%; Pred. No. 9.3e+05;
 Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 WVRW 4
 Db 2 WIRW 5

RESULT 23
 AAW66066 ID AAW66066 standard; peptide; 6 AA.
 XX AC AAW66066;
 XX DT 16-NOV-1998 (first entry)
 XX Peptide useful as somatostatin antagonist.

XX somatostatin antagonist; growth hormone; insulin; glucagon; diabetes;
 XX growth promoter; gastric enzyme; eating disorder; disulphide.
 XX OS Synthetic.
 XX FH Key Location/Qualifiers
 PT Misc-difference 1..6
 PT /note= "D-form residues"
 XX
 PN EP863156-A1.

XX PD 09-SEP-1998.
 XX 05-MAR-1998; 98EP-0301654.
 XX PR 06-MAR-1997; 97US-0812724.
 XX PA (AMCY) AMERICAN CYANAMID CO.
 XX PI Baumbach WR, Houghten RA;
 XX DR WPI: 1998-458800/40.
 XX PT New somatostatin antagonist peptide(s) - useful as animal growth
 PT promoters

PS Example 3; Page 10; 37PP; English.
 XX
 CC The invention relates to somatostatin antagonists that can be used to
 CC promote the growth of meat-producing animals by decreasing the effect of
 CC somatostatin and/or increasing the release of growth hormone, insulin,
 CC glucagon and/or gastric enzymes and/or enhancing immune function. Pure
 CC somatostatin antagonists may also be useful for treating human or animal
 CC disorders where reversal of somatostatin activity is beneficial, e.g.
 CC gastrointestinal or eating disorders, diabetes or brain dysfunction. The
 CC present sequence represents a somatostatin antagonist.
 XX SQ Sequence 6 AA;

Query Match 65.7%; Score 30; DB 19; Length 6;
 Best Local Similarity 75.0%; Pred. No. 9.3e+05;
 Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 WVRW 4
 Db 2 WIRW 5

RESULT 24
 AAY24292 ID AAY24292 standard; peptide; 6 AA.
 XX AC AAY24292;
 XX DT 15-SEP-1999 (first entry)
 XX DE Somatostatin antagonist peptide from US5925618 Example 3.
 XX KW Somatostatin antagonist; growth hormone; insulin; glucagon; gastric;
 KW enzyme; immune function; Cyclic peptide; gastrointestinal disorder;
 KW eating disorder; diabetes; brain dysfunction.
 XX OS Synthetic.
 XX PN US5925618-A.

XX PD 20-JUL-1999.
 XX PF 03-MAR-1998; 98US-0033395.

XX PR 06-MAR-1997; 97US-0035181.

XX PR 03-MAR-1998; 98US-0033395.

XX PA (AMCY) AMERICAN CYANAMID CO.

XX PI Baumbach WR, Houghten RA;

XX DR WPI: 1999-423054/36.
 XX PT New Peptides, used to treat Gastrointestinal and eating disorders,
 PT diabetes, and brain dysfunction
 XX OS Synthetic.
 XX PN Example 3; Column 10; 15PP; English.
 XX DR WPI: 1999-423054/36.
 XX PT New Peptides, used to treat Gastrointestinal and eating disorders,
 PT diabetes, and brain dysfunction
 XX OS Synthetic.
 XX PN The present invention describes linear and cyclic peptides, which
 XX decrease the effect of somatostatin. The somatostatin antagonist
 XX peptides are used for decreasing the effect of somatostatin, by
 XX contacting a somatostatin receptor site. They are also used for
 XX increasing the release of insulin, increasing the release of glucagon,
 XX enhancing the growth of animals and enhancing immune function. They can
 XX be used to treat gastrointestinal and eating disorders, diabetes and
 XX brain dysfunction, and also to increase growth in meat producing
 XX animals. The peptides demonstrate inverse agonist activity. This allows
 XX them to act as pure somatostatin antagonists, while blocking intrinsic
 XX somatostatin receptor activity, independent of endogenous somatostatin.
 XX DR WPI: 1998-458800/40.
 XX PT New somatostatin antagonist peptide(s) - useful as animal growth
 PT promoters

PS Sequence 6 AA;
 XX

XX PN The present invention describes linear and cyclic peptides, which
 XX decrease the effect of somatostatin. The somatostatin antagonist
 XX peptides are used for decreasing the effect of somatostatin, by
 XX contacting a somatostatin receptor site. They are also used for
 XX increasing the release of insulin, increasing the release of glucagon,
 XX enhancing the growth of animals and enhancing immune function. They can
 XX be used to treat gastrointestinal and eating disorders, diabetes and
 XX brain dysfunction, and also to increase growth in meat producing
 XX animals. The peptides demonstrate inverse agonist activity. This allows
 XX them to act as pure somatostatin antagonists, while blocking intrinsic
 XX somatostatin receptor activity, independent of endogenous somatostatin.
 XX DR WPI: 1998-458800/40.
 XX PT New somatostatin antagonist peptide(s) - useful as animal growth
 PT promoters

PS Sequence 6 AA;
 XX

Query Match 66.7%; Score 30; DB 20; Length 6;
 Best Local Similarity 75.0%; Pred. No. 9.3e+05;
 Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 XX AAY08189 standard; peptide; 8 AA.

Qy 1 WVRW 4
 Db 2 WIRW 5

RESULT 25
 ABR45592 standard; Peptide; 6 AA.
 XX
 AC ABR45592;
 AC
 XX 10-JUN-2003 (first entry)
 DT
 XX DE Staphylococcus aureus CHIPS-related Peptide #782.
 XX CHIPS: Chemotaxis Inhibitory Protein; C5a-receptor; C5aR;
 KW formylated peptide receptor; FPR; neutrophil; monocyte; endothelial cell;
 KW inflammation; cardiovascular disease; central nervous system disease;
 KW gastrointestinal disease; skin disease; genitourinary disease;
 KW joint disease; respiratory disease; HIV infection; antiinflammatory;
 KW cardiotonic; cerebroprotective; neuroprotective; nootropic; dermatological;
 KW gynecological; immunosuppressive; anti-HIV.
 XX Staphylococcus aureus.
 OS Synthetic.
 XX PT WO2003006048-A1.
 PN
 XX PD 23-JAN-2003.
 XX PP 11-JUL-2001; 2001WO-EP08004.
 XX PR 11-JUL-2001; 2001WO-EP08004.
 XX PA (JARI) JARI PHARM BV.
 XX PI Van Kessel CPM, Gosselaar-de Haas CJG, Kruijzer JAW;
 PI Van Strip JAG;
 DR WPI; 2003-247783/25.
 XX PT Combination of peptides derived from chemotaxis inhibiting protein from
 PT Staphylococcus aureus (CHIPS) having CHIPS activity, useful in
 PT prophylaxis and treatment of inflammation, cardiovascular, skin and
 PT kidney diseases -
 XX Disclosure; Page 13; 89pp; English.
 CC The present invention relates to peptides (ABR44811-ABR47162 and
 CC ABR47164-ABR47385) derived from the Chemotaxis Inhibitory Protein (CHIPS)
 CC from Staphylococcus aureus. The peptide fragments are useful in the
 CC prophylaxis or treatment of diseases or disorders involving the
 CC C5a-receptor (C5aR) and/or formylated peptide receptor (FPR) or
 CC neutrophils, monocytes and endothelial cells or involving acute or
 CC chronic inflammation reactions. The diseases or disorders include
 CC cardiovascular diseases, disease of the central nervous system,
 CC gastrointestinal diseases, skin diseases, genitourinary diseases, joint
 CC diseases, respiratory diseases and HIV infection.
 XX SQ Sequence 6 AA;

Query Match 66.7%; Score 30; DB 24; Length 6;
 Best Local Similarity 50.0%; Pred. No. 9.3e+05;
 Matches 3; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
 XX AAY08189 standard; peptide; 8 AA.

Qy 1 WVRWHPF 6
 Db 1 WIFWIF 6

RESULT 26
 AAY08189 standard; peptide; 8 AA.
 XX ID AAY08189
 XX AC AAY08189;
 XX DT 09-JUL-1999 (first entry)
 XX DE Clotting factor VIII binding peptide 71.
 XX KW Coagulation factor VIII; clotting factor VIII; diagnosis; treatment;
 KW purification; disorder; blood coagulation.
 XX OS Synthetic.
 XX PN WO9914232-A1.
 XX BD 25-MAR-1999.
 XX PP 12-SEP-1998; 98WO-EP05822.
 XX PR 13-SEP-1997; 97DE-1040310.
 XX PA (OCTA-) OCTAPHARMA AG.
 XX PI Jungbauer A;
 DR WPI; 1999-312410/26.
 XX PT Peptides with affinity for blood clotting factor 8
 XX PS Claim 4; Page 38; 51pp; German.
 XX PT XX
 XX CC This invention describes novel peptides (AAY08119-Y08212) with affinity
 CC for coagulation factor VIII which can be used for for labeling,
 CC identification (diagnostic) and purification of factor VIII. Some are
 CC specific for one of natural and recombinant factor VIII, others are
 CC reactive with both forms. Factor VIII is used to treat disorders of
 CC blood coagulation. Using relatively small peptides rather than large
 CC antibody molecules generally used, simplifies purification of factor
 CC VIII. The peptides are of formula R1-X-R2 where R1 = amino or a
 CC peptide; R2 = carboxy or a peptide and X = a peptide of at least 3,
 CC preferably 7-12, amino acid residues.
 XX SQ Sequence 8 AA;
 Query Match 66.7%; Score 30; DB 20; Length 8;
 Best Local Similarity 33.3%; Pred. No. 9.3e+05;
 Matches 2; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
 Qy 1 WVRWHPF 6
 Db 2 WIKWEY 7

RESULT 27
 AAW80360 standard; Peptide; 12 AA.
 XX ID AAW80360
 XX AC AAW80360;
 XX DT 14-JAN-1999 (first entry)
 XX DS Peptide eluted after biopanning against maltose binding protein.
 XX KW Intervening protein sequence; IVPS; protein splicing;
 KW protein production; maltose binding protein.
 XX OS Synthetic.
 XX PN US5834247-A.

XX 10-NOV-1998.
 PD 05-MAR-1997; 97US-0811492.
 XX PR 05-MAR-1997; 97US-0811492.
 PR 09-DEC-1992; 92US-0004139.
 PR 03-NOV-1993; 93US-0146885.
 PR 28-JUN-1995; 95US-0496247.
 PR 29-DEC-1995; 95US-0580555.
 PA (NEWE) NEW ENGLAND BIOLABS INC.
 XX Adam E, Chong SSC, Comb DG, Hodges RA, Jack WB;
 PI Noren CJ, Perler FB, Southworth M, Xu M;
 XX WPI; 1999-008713/01.
 DR New modified target proteins - which have controllable intervening
 PT protein sequence which can facilitate protein production, purification,
 PT labelling or isolation of target proteins
 XX Example 22; Fig 36; 123PP; English.
 PS AAW80372-93 represent Peptides eluted after biopanning against
 XX maltrose binding protein, in the course of the invention. The
 CC specification describes IVPS (Intervening Protein sequence)
 CC regions which encode peptides which are removed via protein
 CC splicing to form the native protein. The specification describes
 CC a modified protein comprising a target protein or portion, fused
 CC either internally or terminally, to a IVPS, or to an amino- or
 CC carboxyl-terminal element of a IVPS. The IVPS are capable of
 CC excision from or cleavage of the modified protein upon predetermined
 CC conditions, in cis or trans, e.g. temperature increase, deglycosylation,
 CC unblocking of amino acid residues, treatment with chemical reagents,
 CC or isolating target proteins such as enzymes, toxins, cytokines,
 CC glycoproteins and growth factors.
 XX SQ Sequence 12 AA;
 Query Match 66.7%; Score 30; DB 20; Length 12;
 Best Local Similarity 100.0%; Pred. No. 97;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 3 RWHF 6
 Db 7 RWHF 10

RESULT 28
 ABB74383
 ID ABB74383 standard; Peptide; 14 AA.
 XX AC ABB74383;
 XX DT 18-APR-2002 (first entry)
 XX DE Karyophilic peptide SEQ ID NO:147.
 XX KW Fusogenic; nuclear localisation signal; NLS; encapsulation; lipogene;
 KW liposome; micelle; karyophilic; cytostatic; antitumour; solid tumour;
 KW peptide-lipid-polynucleotide complex; neoplastic disease; gene therapy;
 KW breast carcinoma; prostate carcinoma.
 XX OS Saccharomyces cerevisiae.
 XX PN WO200193836-A2.
 XX DT 13-DEC-2001.
 XX PD 08-JUN-2001; 2001WO-US18657.
 XX PF

PR 09-JUN-2000; 2000US-210925P.
 XX PA (BOUL/) BOULIKAS T.
 XX PI Boulikas T;
 XX DR WPI; 2002-164295/21.
 PT Encapsulation of plasmid DNA (Lipogenes) and therapeutic agents with
 PT nuclear localization signal/fusogenic peptide conjugates into targeted
 PT liposome complexes -
 XX SQ Claim 14; Page 63; 107PP; English.
 PS XX The present invention describes a method for producing micelles with
 CC entrapped therapeutic agents. The method comprises: (1) combining
 CC negatively charged agent with a cationic lipid in a ratio where 30-90 %
 CC of the negatively charged atoms are neutralised by positive charges on
 CC lipid molecules to form an electrostatic micelle complex in 20-80 %
 CC ethanol; and (2) combining the micelle complex of (a) with fusogenic-
 CC karyophilic peptide conjugates in a 0.0-0.3 ratio, therefore producing
 CC micelles with entrapped therapeutic agents. Also described is a method
 CC for delivering therapeutic agent in vivo, comprising the administration
 CC of the micelle. ABB74256 to ABB74258 represent specifically claimed
 CC nuclear localisation signal (NLS) peptides for use in the method as the
 CC fusogenic-karyophilic peptides. The micelles produced can have cytostatic
 CC and antitumour activities. The peptide-lipid-polynucleotide complexes
 CC produced are useful for inhibiting the progression of neoplastic
 CC diseases. The invention relates to the field of gene therapy and is
 CC directed toward methods for producing peptide-lipid-polynucleotide
 CC complexes suitable for delivery of polynucleotides. The encapsulated
 CC molecules display therapeutic efficacy in eradicating solid tumours
 CC including but not limited to breast carcinoma or prostate carcinoma.
 CC ABB74235 to ABB74255 are used in the exemplification of the present
 CC invention.
 XX SQ Sequence 14 AA;
 Query Match 66.7%; Score 30; DB 23; Length 14;
 Best Local Similarity 100.0%; Pred. No. 1-1e+02;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 29
 ABB49729
 ID ABB49729 standard; peptide; 7 AA.
 XX AC ABB49729;
 XX DT 10-APR-2001 (first entry)
 XX DB Peptide SEQ ID 40 which binds to the TADG5 protein.
 XX KW TADG5; human; zinc finger; SH3 domain; cell signalling;
 KW cell cycle control.
 XX OS Unidentified.
 XX EN WO200102422-A1.
 XX DD 11-JAN-2001.
 XX EP 30-JUN-2000; 2000WO-US18304.
 XX FR 01-JUL-1999; 99US-0346510.
 XX PA (UYAR-) UNIV ARKANSAS.
 XX FI O'Brien TJ, Wang Y;

XX WPI; 2001-123102/13.
 DR
 XX Novel SH3 domain-containing TAD5 protein useful for regulating gene
 PT replication, as a nutrition supplement, and as a marker for human
 PR tissue, or in cell cycle control -
 XX
 PS Example 6; Page 36; 82pp; English.
 XX

This invention relates to an SH3 domain-containing protein termed TAD5, and its variants. The invention includes amino acid and polynucleotide sequences for TAD5, and oligonucleotides which bind to either the basic amino acid region and/or the zinc finger motif of the TAD5 protein. The basic amino acid region or zinc finger motif of TAD5 is useful for regulating the expression of the TAD5 gene in a cell. The TAD5 protein is useful as a source of amino acids, is a nutrition supplement, and as a marker for human tissue, or in cell cycle control. TAD5 protein or peptides generated from the protein sequence are useful as antigens for the production of polyclonal and monoclonal antibodies. DNA encoding TAD5 is useful as an antisense vehicle for cell cycle control by shuttling down signalling or cell division. The present sequence represents a peptide identified from a phage display peptide library through biopanning with the TAD5 protein.

XX Sequence 7 AA;
 SQ Query Match 64.4%; Score 29; DB 22; Length 7;
 Best Local Similarity 60.0%; Pred. No. 9.3e+05;
 Matches 3; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
 OX : 1 WWRWH 5
 Db : 3 WMDWH 7

RESULT 30
 ABB90493 ID ABB90493 standard; Peptide; 8 AA.
 XX AC ABB90493;
 XX DT 27-MAY-2002 (first entry)
 XX DE Hominidae LDL receptor related peptide sequence #139.
 XX Hominidae; low density lipoprotein receptor; LDL receptor; LDL-R;
 KW Hominidae; lipid metabolic error; hyperlipaemia; mutation;
 KW arteriosclerosis; ischaemic heart disease; ischaemia.
 XX OS Synthetic.
 XX PN WO200206467-A1.
 XX PD 24-JAN-2002.
 XX PP 17-JUL-2001; 2001WO-JP06153.
 XX PR 18-JUL-2000; 2000JP-0218039.
 XX PA (BMLB-) BML INC.
 XX PI Hattori H, Tsuji M, Okada T, Nagano M, Egashira T, Ishihara M;
 PI Iwasaki T;
 XX DR 2002-179794/23.

XX Set of specific low density lipoprotein receptor gene mutations for
 PT diagnosis of familial lipid metabolism errors including hyperlipidemia -
 XX
 PS Example; Fig 50; 123pp; Japanese.
 XX The present invention describes a method for detecting lipid metabolism

CC errors in patients using as indicators a set of 65 specific low density
 CC lipoprotein (LDL) receptor gene mutations. The method can be used in the
 CC diagnosis of an inherited predisposition to the development of diseases
 CC associated with hyperlipaemia, such as arteriosclerosis and ischaemic
 CC heart disease. ABL9141 encodes the LDL receptor given in ABL90325.
 CC ABL9142 to ABL9163 represent PCR primers used in the amplification of
 CC the receptor gene. ABL90990 to ABL9140 and ABL90445 to ABL90524
 CC represents sequences used in the exemplification of the present
 CC invention.

XX Sequence 8 AA;
 SQ Query Match 64.4%; Score 29; DB 23; Length 8;
 Best Local Similarity 60.0%; Pred. No. 9.3e+05;
 Matches 3; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OX : 1 WWRWH 5
 Db : 2 WQWH 6

RESULT 31
 AAR33522 ID AAR33522 standard; peptide; 6 AA.
 XX AC AAR33522;
 XX DT 07-JUL-1993 (first entry)
 XX DS Peptide for treating septic shock.
 XX KW Toxic shock; blood endotoxin removal; serum; diagnostic reagent;
 KW cytokine release control; treatment; pertussis; bacterial meningitis;
 KW HIV related infections; polymyxin B; Group I.
 XX OS Synthetic.
 XX PH Key Region 1..3
 FT /note= "repeat region"
 FT Region 4..6
 FT /note= "repeat region"
 XX PR ZA9200943-A.
 XX PA 25-NOV-1992.
 XX PR 10-FEB-1992; 92ZA-0000943.
 XX PR 11-FEB-1991; 91US-0658744.
 XX PA (PORR/) PORRO M.
 XX PI Porro M;
 XX DR WPI; 1993-094304/11.

XX PR New peptide for treatment or prevention of toxic shock - comprises
 PT specified sequences of aminoacid(s) and analogs
 PR comprising sequences retro-orientated
 XX PS Example; Page 5; 39pp; English.
 XX The (Group I) peptide is an example of a generic peptide of formula
 CC R-(Lys/Arg/His - Phe/Tyr/Trp - Leu/Ile/Val)n-R, where n = 1-100
 CC and each R is H, an amino acid residue or a fatty acid residue.
 CC The peptide is useful for treating septic shock,
 CC mixing with polymyxin B to reduce its toxicity; removing
 CC endotoxins from blood, sera or other fluids (in vivo or in
 CC vitro); controlling release of cytokines induced by endotoxins;
 CC as diagnostic reagents to detect and quantify toxins in blood
 CC or sera; preparing non-toxic antigenic complexes of lipid A or
 CC lipopolysaccharide (LPS); and for treating pertussis, bacterial

Qy 1 WWRW 4
 DB 2 WLRW 5

RESULT 34
 ID AAR93706 standard; peptide; 6 AA.
 XX AAR93706
 AC
 DT 10-MAY-1996 (first entry)
 XX Cyclo[-Tyr-Trp-Leu-Arg-Trp-Gly-].
 DE neurokinin A antagonist; tachykinin; respiratory disease; asthma;
 KW analgesic; cyclic.
 KW
 OS Synthetic.
 XX

Key Location/Qualifiers
 FH Modified-site 1 /note= "not an N-terminal amino acid, but condensed
 with Gly(6) to form a cyclic peptide"
 FT Modified-site 6 /note= "not a C-terminal amino acid, but condensed
 with Trp(1) to form a cyclic peptide"
 FT Misc-difference 2 /note= "D-form residue"
 FT
 XX WO9521187-A1.
 XX
 FD 10-AUG-1995.
 XX
 PF 10-JAN-1995; 95WO-US00296.
 PR 03-FEB-1994; 94US-0191571.
 PA (RICH) MERRELL DOW PHARM INC.
 PI Buck SH, Harbeson SL, Kudlacz EM, Owen TJ;
 XX DR 1995-336695/43.
 XX
 PT New cyclic peptide derivs. - are neurokinin A and tachykinin
 antagonists useful e.g. for treating asthma or as analgesics
 XX
 PS Claim 5; Page 68; 82pp; English.
 PR The patent describes novel cyclic hexapeptide and octapeptide compounds
 CC which are antagonists of neurokinin A and which are useful medically as
 CC analgesics and for treating respiratory diseases such as asthma. The
 CC present sequence represents a specifically preferred example of the new
 CC peptides.
 XX SQ Sequence 6 AA;
 XX Query Match Score 28; DB 16; Length 6;
 PT Best Local Similarity 75.0%; Pred. No. 9.3e+05;
 XX Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 PS
 PR 1 WWRW 4
 XX DR 2 WLRW 5

RESULT 35
 ID AAR93707 standard; peptide; 6 AA.
 XX AAR93707
 AC
 DE Cyclo[-Tyr-Trp-Leu-Arg-Trp-(D- or L)-Ala-].
 KW neurokinin A antagonist; tachykinin; respiratory disease; asthma;
 KW analgesic; cyclic.
 KW
 OS Synthetic.
 XX

Key Location/Qualifiers
 FH Modified-site 1 /note= "not an N-terminal amino acid, but condensed
 with Gly(6) to form a cyclic peptide"
 FT

PT	Modified-site	6	with Ala(6) to form a cyclic peptide"	XX	Barry B, Nagalla S, Spindel ER;
PT		/note=	"not a C-terminal amino acid, but condensed with Tyr(1) to form a cyclic peptide"	PI	
PT	Misc-difference	2		XX	WPI: 1995-169632/22.
PT		/note=	"D-form residue"	XX	Purified bombesin-related peptide(s) - prepared by recombinant DNA
PT	Misc-difference	6		PT	methods
PT		/note=	"L- or D-form residue"	XX	PT
XX				PS	Claim 2; Column 7-8; 10pp; English.
PN				XX	The peptides AAR74022-3 are derived from the bombesin-related prohormone
XX				CC	AAR74034. The Peptides are generated by internal processing of the
PD	10-AUG-1995.			CC	prohormone at the Ser-Leu and Lys-Lys sequences. This peptide is
XX				CC	designated SAP bombesin-1.0 ("SIM-2636"), and corresponds to residues
PP	10-JAN-1995;	95WO-US00296.		CC	49-58 of the prohormone. The SAP bombesin-10 is then modified from the
XX				CC	prohormone-cleaved peptide by having an amidated methionyl residue.
PR	03-FEB-1994;	94US-0191571.		CC	This Peptide can be generated by an internal cleavage of the SAP
XX				CC	bombesin-14 (AAR74032). The amide gp. being donated from the Gly residue
PA	(RICH) MERRILL DOW PHARM INC.			CC	at position 59 of the prohormone. The peptides have applications within
XX				CC	human and veterinary medicine, especially to treat the diseases or
P1	Buck SH, Harbeson SL, Kudlacz EM, Owen TJ;			CC	disorders specified in US5217955, WO9402018 and WO9220363.
DR	WPI: 1995-336695/43.			XX	
XX				SQ	Sequence 10 AA;
PT	New cyclic Peptide derivs. - are neurokinin A and tachykinin			Query Match	Score 28; DB 16; Length 10;
PT	antagonists useful e.g. for treating asthma or as analgesics			Best Local Similarity	62.2%; Pred. No. 1.7e+02;
XX				Matches	0; Mismatches 2; Indels 0; Gaps 0;
PS	Claim 6; Page 69; 82pp; English.			QY	1 WVRWHF 6
XX				Db	4 WARGHF 9
CC	The patent describes novel cyclic hexapeptide and octapeptide compounds				
CC	which are antagonists of neurokinin A and which are useful medically as				
CC	analgesics and for treating respiratory diseases such as asthma. The				
CC	present sequence represents a specifically preferred example of the new				
CC	peptides.				
XX					
SQ	Sequence 6 AA;			RESULT 38	
				AA86144	
				ID	AAR86144 standard; peptide; 10 AA.
				XX	
				AC	AAR86144;
				XX	
				DT	26-JUN-1996 (first entry)
				DE	Anti-ELAM-1 binding peptide #121.
				XX	
				KW	Peptide mimetic endothelial leukocyte adhesion molecule; ELAM; selectin;
				KW	inflammation; sialyl Lewis; cell surface glycoprotein; Hu60 cell.
				XX	
				OS	Synthetic.
				XX	
				PN	W09531210-A1.
				XX	
				PD	23-NOV-1995.
				XX	
				PP	11-MAY-1995;
				XX	95WO-US06315.
				PR	11-MAY-1994;
				XX	94US-0241054.
				PA	(AFFY-) AFFYMAX TECHNOLOGIES NV.
				XX	
				PI	Barrett RW, Cvirla SB, Dower WJ, Koller KJ, Lee J;
				PI	Martens CL, Ruheand-Fritsch B;
				XX	
				DR	WPI: 1996-010687/01.
				XX	
				PT	New peptides(s) that bind to endothelial leukocyte adhesion molecule
				PT	1 - useful for treating inflammation and other E-selectin mediated
				XX	diseases
				PS	Disclosure; Page 17; 85pp; English.
→	PN	US5410018-A.		XX	
XX	25-APR-1995.			PT	
PD				PT	
XX				PR	
PF	25-FEB-1994;	94US-0203196.		XX	
XX				CC	Peptides AAR86024-R96236 are examples of peptides and their mimetics
PR				CC	that bind to endothelial leukocyte adhesion molecule (ELAM)-1. This
XX				CC	molecule is a member of the selectin family of receptors and is involved
PA					

AARR56756
 ID AARR56756 standard; peptide; 12 AA.
 XX
 AC
 XX
 AARR56756
 XX
 DT 25-MAR-2003 (updated)
 DT 20-MAR-1995 (first entry)
 XX
 Random peptide #53 isolated by anti-dynorphin B Ab Panning.
 XX
 Dynorphin B; epitope; antibody panning; random peptide library;
 antibody D32.39; ligand screening.
 XX
 OS Synthetic.
 XX
 FH Key
 FT Region
 FT
 XX
 PN US5338665-A.
 XX
 PD 16-AUG-1994.
 XX
 PF 15-OCT-1992; 92US-0963321.
 XX
 PR 16-OCT-1991; 91US-0778233.
 PR 15-OCT-1992; 92US-0963321.
 XX
 PA (AFFY-) AFFYMAX TECHNOLOGIES NV.
 XX
 PI Schatz PJ, Stemmer WPC;
 XX
 DR WPI; 1994-263274/32.
 XX
 PT Construction of random peptide library - by creating vectors
 PT containing DNA encoding the random peptide(s) fused to DNA binding
 PT proteins, used to screen for novel ligands
 XX
 PS Example 4: Fig 3B; 45pp; English.
 XX
 A random peptide library was constructed in E.coli hosts.
 CC The library was lysed and panned using antibody D32.39 which
 CC recognises the Dynorphin B epitope RQPKV. Peptides isolated by
 CC panning were sequenced and a consensus epitope was identified (see
 CC features table). Arginine is invariant in the first position for all
 CC the ELISA positive clones (AARR56701-RE6758). No strong bias was
 CC evident for the second position but in the third position, 5 amino
 CC acids (Phe, His, Asp, Tyr, Trp) account for 98% of the residues. The
 CC fourth position shows a strong bias for positively charged residues
 CC at position 5 (mostly Val). Val and Thr predominate at the sixth
 CC position (76%) with Ser and Ile accounting for the remaining amino
 CC acids.
 CC (Updated on 25-MAR-2003 to correct PF field.)
 XX
 SQ Sequence 12 AA;
 Query Match 2 VRWH 5
 Best Local Similarity 62.2%; Score 28; DB 15; Length 12;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 2 VRWH 5
 Db 2 VRWH 5
 RESULT 42
 AARR91504
 ID AARR91504 standard; Peptide; 12 AA.
 XX
 AC AARR91504;
 XX
 DT 25-MAR-2003 (updated)
 DT 21-NOV-1996 (first entry)
 XX
 D32.39 monoclonal antibody, peptide ligand 53.
 DE dynorphin B; random peptide library; construction; monoclonal antibody;
 KW D32.39; epitope; screening.
 XX
 OS Synthetic.
 XX
 FH Key
 FT Peptide
 FT
 XX
 PN US5498530-A.
 XX
 PD 12-MAR-1996.
 XX
 PF 15-AUG-1994; 94US-0290641.
 XX
 PR 15-OCT-1992; 92US-0963321.
 PR 16-OCT-1991; 91US-0778233.
 PR 15-AUG-1994; 94US-0290641.
 XX
 PA (AFFY-) AFFYMAX TECHNOLOGIES NV.
 XX
 PI Cull MG, Miller JF, Schatz PJ, Stemmer WPC;
 XX
 DR WPI; 1996-159686/16.
 XX
 Random peptide libraries comprising host cells expressing DNA
 PR binding proteins fused with random peptide(s) - used to identify,
 PR e.g. peptide ligands of receptors
 XX
 PS Example 4: Fig 3B; 46pp; English.
 XX
 A random peptide (RP) library can be constructed by transforming host
 CC cells with a collection of recombinant vectors that encode a fusion
 CC protein comprised of a DNA binding protein (BP) and a RP and also
 CC contains a binding site for the DNA BP. The RP library can be used to
 CC screen for novel ligands, the method resulting in the formation of a
 CC complex comprising the fusion protein bound to a receptor through the RP
 CC ligand and to the recombinant DNA vector through the DNA BP. An RP
 CC library (AARR91450-506) was screened with D32.39 and a six amino acid
 CC region of dynorphin B (RQPKV), an opioid peptide, was found to be the
 CC preferred recognition sequence for D32.39.
 CC (Updated on 25-MAR-2003 to correct PF field.)
 XX
 SQ Sequence 12 AA;
 Query Match 62.2%; Score 28; DB 17; Length 12;
 Best Local Similarity 100.0%; Pred. No. 2e+03;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 AC AAW25286;
 XX
 DR 14-OCT-1997 (first entry)
 XX
 Antibody D32.39 epitope #53.
 XX
 PCR; Polymerase chain reaction; primer; amplify; lacI; headpiece domain;
 KW random Peptide library; DNA binding protein; receptor ligand; dimer;
 KW fusion protein; epitope; antibody.
 XX
 OS Synthetic.

XX	Key	Location/Qualifiers						
XX	Region	3..8 /note= "D32.39 recognition site"						
XX	W09640987-A1.	PN	PN	W0200115511-A2.				
XX	19-DEC-1996.	PD	XX	08-MAR-2001.				
XX	07-JUN-1996;	PR	XX	31-AUG-2000; 2000WO-US24034.				
XX	26-OCT-1995;	PR	XX	01-SEP-1999; 99US-015190.				
XX	07-JUN-1995;	PR	XX	13-MAR-2000; 2000US-0188944.				
XX	(AFFY-) AFFYMAX TECHNOLOGIES NV.	PA	XX	(DYP1-) UNIV PITTSBURGH.				
XX	Cull MG, Gates CM, Miller JF, Schatz PJ, Stemmer WPC;	PI	XX	Robbins PD, Mi Z, Frizzell R, Glorioso JC, Gambotto A;				
XX	WPI; 1997-087065/08.	DR	XX	WPI; 2001-273309/28.				
XX	Random peptide library and affinity enrichment methods for screening	PT	XX	Peptides that facilitate uptake and cytoplasmic and/or nuclear				
XX	it - useful to identify peptide(s) that bind receptor mol's. of	PT	XX	transport of proteins, DNA and viruses, useful, e.g. for facilitating				
XX	interest, useful for therapeutic, diagnostic and related purposes	PT	XX	uptake of antigens in immunogenic compositions -				
XX	Example 4; Fig 3b; 149pp; English.	PS	XX	Claim 1; Page 123; 129pp; English.				
XX	AAW25231-W25288 represent epitopes for the antibody D32.39. These	PT	XX	The present invention provides the sequences of 75 peptides which				
XX	sequences were isolated by a method of the invention to isolate a DNA	PT	XX	facilitate the uptake and transport of viruses, proteins and nucleic				
XX	binding protein, or a peptide with specific affinity for a receptor. The	PT	XX	acids. These internalising peptides can be used for transport into the				
XX	method comprises providing a recombinant DNA vector encoding a peptide	PT	XX	cytoplasm or the nucleus. They are useful for facilitating uptake into				
XX	having specific affinity for a receptor. A library of oligonucleotides	PT	XX	the cell inducing apoptosis, for example in the treatment of arthritis				
XX	encoding different potential DNA binding proteins is inserted in-frame	PT	XX	and cancer, to expand a population of stem cell or differentiated cells,				
XX	into the vector to create a fusion protein library. Host cells are	PT	XX	to stimulate cell differentiation, facilitate the integration of AAV into				
XX	transformed, and cultured to express the fusion protein. If a fusion	PT	XX	the genome of a cell, and to stimulate an immune response, for example in				
XX	protein comprises a potential DNA binding protein with affinity for the	PT	XX	the case of a HIV vaccine. The present sequence is one of the peptides of				
XX	vector, the fusion protein binds to the vector to form a complex. The	PT	XX	the invention.				
XX	host cells are lysed to isolate the complexes which are contacted with a	PT	XX	XX				
XX	receptor to induce peptide binding to the receptor. The random peptide	PT	XX	Sequence 12 AA;				
XX	library and the methods for screening it can be used to identify peptides	PT	XX	Query Match 62.2%; Score 28; DB 22; Length 12;				
XX	that bind receptor molecules of interest. The peptides can be used for	PT	XX	Best Local Similarity 60.0%; Pred. No. 2e+02;				
XX	therapeutic, diagnostic and related purposes, e.g. to bind the receptor,	PT	XX	Matches 3; Conservative 0; Mismatches 2; Indels 0; Gaps 0;				
XX	or an analogue, and so inhibit or promote the activity of the receptor.	PT	XX	QY 1 WYRWH 5				
XX	The method of affinity enrichment allows a very large library of peptides	PT	XX	Db 3 WYRWH 7				
XX	to be screened, and by identifying the peptide de novo, the sequence or	PT	XX	RESULT 45				
XX	structure of the receptor molecule or the natural binding partner of the	PT	XX	ABP46201				
XX	receptor need not be known.	PT	XX	ID ABP46201 standard; peptide; 13 AA.				
XX	Sequence 12 AA;	XX	XX	ID ABP46201;				
XX	Query Match 62.2%; Score 28; DB 18; Length 12;	XX	XX	ID ABP46201;				
XX	Best Local Similarity 100.0%; Pred. No. 2e+02;	XX	XX	ID ABP46201;				
XX	Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	XX	XX	ID ABP46201;				
XX	QY 2 VRWH 5	XX	XX	ID ABP46201;				
XX	Db 2 VRWH 5	XX	XX	ID ABP46201;				
XX	RESULT 44	XX	XX	ID ABP46201;				
XX	AAB60032 standard; Peptide; 12 AA.	XX	XX	ID ABP46201;				
XX	Internalising peptide SEQ ID NO: 47.	DE	XX	ID ABP46201;				
XX	Internalising peptide; transport; apoptosis; arthritis; cancer;	DE	XX	ID ABP46201;				
XX	stem cell; cell differentiation; immune response stimulation;	DE	XX	ID ABP46201;				
XX	HIV vaccine.	OS	XX	ID ABP46201;				
XX	Synthetic.	OS	XX	ID ABP46201;				

PR 25-MAY-2001; 2001US-293499P.

XX (HUMA-) HUMAN GENOME SCI INC.
PA (CAMB-) CAMBRIDGE ANTIBODY TECHNOLOGY.

XX PA Ruben SM, Barash SC, Choi GH, Vaughan T, Hilbert D;

XX DR WPI: 2002-114799/15.

XX PT Antibodies against B Lymphocyte Stimulating polypeptides, useful for
PT the diagnosis and treatment of cancers and immune disorders -
XX

XX PS Claim 2; Page 2952; 3148pp; English.

XX This invention describes novel antibodies that immunospecifically bind to
CC B Lymphocyte Stimulator (BlyS) polypeptides. BlyS is a member of the
CC tumour necrosis factor (TNF) super family and induces B cell
CC proliferation and differentiation. The antibodies of the invention have
CC cytostatic, immunosuppressive, immunostimulant, immunomodulatory,
CC antirheumatic and antiAIDS activity and can be used in vaccines to
CC inhibit the expression and activity of BlyS. The antibodies bind to BlyS
CC and so may be used to detect and quantitate the presence of BlyS in
CC biological samples and may be used in this way to diagnose disease
CC associated with aberrant expression of BlyS. They may also be
CC administered to treat diseases associated with aberrant BlyS expression
CC and activity such as cancer, immune, and autoimmune disorders and
CC diseases, e.g. systemic lupus erythematosus, rheumatoid arthritis,
CC immunodeficiency (e.g. common variable immunodeficiency (CVI) and
CC acquired immunodeficiency syndrome (AIDS)). ABP4390-ABP4728 represent
CC the antibodies and fragments of the antibodies described in the method
CC of the invention.

XX SQ Sequence 13 AA;

Query Match 62.2%; Score 28; DB 23; Length 13;
Best Local Similarity 50.0%; Prod. No. 2.2e+02;
Matches 3; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
Qy 1 WYRWHF 6
Db 6 WPNWF 11Search completed: December 12, 2003, 10:29:02
Job time : 31.3 secs

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OM protein - protein search, using SW model
 Run on: December 3, 2003, 11:44:55 ; Search time 7.33333 Seconds
 38.476 Million cell updates/sec
 (without alignments)

Title: US-09-912-414-2
 Perfect score: 45
 Sequence: 1 WYRWHF 6

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 127863 seqs, 47026705 residues

Total number of hits satisfying chosen parameters: 795

Minimum DB seq length: 0

Maximum DB seq length: 15

Post-processing: Minimum Match 10%
 Maximum Match 100%
 Listing First 45 summaries

Database : SwissProt_41_*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match	Length	DB ID	Description
1	22	48.9	9	1	LITR_PHYRO	PO8946 phylomedusin
2	22	48.9	11	1	RANC_PANPI	PO8951 rana pipien
3	20	44.4	9	1	LITO_LITAU	PO8945 litoria aur
4	20	44.4	13	1	BOML_PSEGK	PA2991 pseudophryne
5	19.5	43.3	5	1	UFO1_MOUSE	P38539 mus musculus
6	19	42.2	10	1	LABA_JATMU	P13270 iatrophia mu
7	18	40.0	9	1	COW_JATMU	P83047 conus vent
8	18	40.0	13	1	YPNP_PHOLU	P41129 photophthalmus
9	17	37.8	11	1	MLG_THETS	P41989 theromyzon
10	17	37.8	13	1	FI121_LITRU	P82097 litoria rub
11	17	37.8	13	1	FI122_LITRU	P82098 litoria rub
12	17	37.8	13	1	TEMPO_RANNE	P57704 rana temporaria
13	16	35.6	8	1	ACI_THUAL	P18691 thunnius alb
14	16	35.6	13	1	MLA_ANOCA	P41589 anolis carolinensis
15	16	35.6	13	1	MLA_CAMDR	P01198 camelus dromedarius
16	15	35.6	14	1	LPW_RHIME	P18854 rhizobium m
17	15	33.3	7	1	TPFY_PACDA	P83455 pachymedusa
18	15	33.3	10	1	AEGL_AGRAE	P83465 agrypnus aegle
19	15	33.3	12	1	RF1_CONSP	P58805 conus spurius
20	15	33.3	15	1	CX3B_CONQU	P58842 conus querquedula
21	15	33.3	15	1	GLN2_PINPS	P01107 pinus pinaster
22	14	31.1	10	1	BPP2_BOTJA	P01022 bothrops jaegeri
23	14	31.1	10	1	PARP_NYTED	P42560 mytilus edulis
24	14	31.1	10	1	GRP_RANPI	P22260 rana ridibunda
25	14	31.1	11	1	CA2Z_LITCI	P82088 litoria citellata
26	14	31.1	11	1	CA2Z_LITCI	P82092 litoria citellata
27	14	31.1	13	1	BPP1_BOTJA	P01020 bothrops jaegeri
28	14	31.1	13	1	CXA2_CONGE	P01520 conus georgianus
29	14	31.1	14	1	ALYT_ALYOB	P08344 alytes obstetricans
30	14	31.1	14	1	MAST_PARID	P24716 parapolybia
31	14	31.1	14	1	MAST_VESBA	P21654 vespa basaloides
32	14	31.1	14	1	MAST_ESA	P05151 vespa xanthina
33	14	31.1	15	1	AH2_PRUSE	P29260 prunus serotina

ALIGNMENTS

RESULT 1									
LITR_PHYRO		STANDARD		PRT		9 AA.			
ID	PO8946;	AC	PO8946;	DT	01-NOV-1988 (Rel. 09, Created)	DT	01-FEB-1994 (Rel. 28, Last sequence update)	DT	15-SEP-2003 (Rel. 42, Last annotation update)
DE	Rhodei-litorin.	OS	Phylomedusa rohdei (Rohde's leaf frog).	RA	"Rohdei-litorin: a new peptide from the skin of Phylomedusa rohdei."	RA	"Rohdei-litorin: a new peptide from the skin of Phylomedusa rohdei."	RA	"Rohdei-litorin: a new peptide from the skin of Phylomedusa rohdei."
CC	-1- SUBCELLULAR LOCATION: Secreted.	CC	-1- TISSUE SPECIFICITY: Skin.	CC	-1- SIMILARITY: BELONGS TO THE BOMBESIN/NEUROMEDIN B/RANATENSIN FAMILY.	CC	-1- TISSUE SPECIFICITY: Skin.	CC	-1- SIMILARITY: BELONGS TO THE BOMBESIN/NEUROMEDIN B/RANATENSIN FAMILY.
DR	PS0241; S07241; S07241;	DR	InterPro; IPR00874; Bombesin.	DR	PS0241; S07241; S07241;	DR	InterPro; IPR00874; Bombesin.	DR	PS0241; S07241; S07241;
DR	Prosite; PS0257; Bombesin; 1.	DR	Prosite; PS0257; Bombesin; 1.	DR	Prosite; PS0257; Bombesin; 1.	DR	Prosite; PS0257; Bombesin; 1.	DR	Prosite; PS0257; Bombesin; 1.
KW	Amphibian defense peptide; Bombesin family; Amidation; Pyrrolidone carboxylic acid.	KW	Amphibian defense peptide; Bombesin family; Amidation; Pyrrolidone carboxylic acid.	KW	Amphibian defense peptide; Bombesin family; Amidation; Pyrrolidone carboxylic acid.	KW	Amphibian defense peptide; Bombesin family; Amidation; Pyrrolidone carboxylic acid.	KW	Amphibian defense peptide; Bombesin family; Amidation; Pyrrolidone carboxylic acid.
FET	MOD_RER	FET	MOD_RER	FET	MOD_RER	FET	MOD_RER	FET	MOD_RER
FT	SEQENCE 9 AA; 1090 MW;	FT	SEQENCE 9 AA; 1090 MW;	FT	SEQENCE 9 AA; 1090 MW;	FT	SEQENCE 9 AA; 1090 MW;	FT	SEQENCE 9 AA; 1090 MW;
CC	4ECCC11E61ADG377 CRC64;	CC	4ECCC11E61ADG377 CRC64;	CC	4ECCC11E61ADG377 CRC64;	CC	4ECCC11E61ADG377 CRC64;	CC	4ECCC11E61ADG377 CRC64;
Qy	1 WYRWHF 6	Qy	1 WYRWHF 6	Qy	1 WYRWHF 6	Qy	1 WYRWHF 6	Qy	1 WYRWHF 6
DB	.3 WATGWF 8	DB	.3 WATGWF 8	DB	.3 WATGWF 8	DB	.3 WATGWF 8	DB	.3 WATGWF 8

RESULT 2									
RANC_RANPI		STANDARD		PRT		11 AA.			
ID	PO8951;	AC	PO8951;	DT	01-NOV-1988 (Rel. 09, Created)	DT	01-NOV-1988 (Rel. 09, Created)	DT	01-NOV-1988 (Rel. 09, Last sequence update)
DE	Ranatinsin-C.								
OS	Rana pipiens (Northern leopard frog).								
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buffonidea; Ranidae; Rana;	OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buffonidea; Ranidae; Rana;	OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buffonidea; Ranidae; Rana;	OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buffonidea; Ranidae; Rana;	OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buffonidea; Ranidae; Rana;
NCBI_TaxID	8404;								

[1] SEQUENCE.
RN RP TISSUE=Skin secretion;
RC MEDLINE=84131098; PubMed=6141890;
RX
RA Nakajima T.;
RL Unpublished results, cited by:
RL Erspamer V., Erspamer G.F., Mazzanti G., Endean R.;
Comp. Biochem. Physiol. 77C:99-108 (1984).
RL SUBCELLULAR LOCATION: Secreted.
CC -|- TISSUE SPECIFICITY: Skin.
CC -|- SIMILARITY: BELONGS TO THE BOMBESIN/NEUROMEDIN B/RANATENSIN FAMILY.
DR InterPro: IPR000874; Bombesin.
DR Pfam: PF002044; Bombesin; 1.
DR PROSITE; PS00257; BOMBESIN; 1.
KW Amphibian defense peptide; Bombesin family; Amidation.
FT MOD RES 11 11 AMIDATION.
SQ SEQUENCE 11 AA; 1304 MW; D6C985A61ADC366 CRC64;
Query Match 48.9%; Score 22; DB 1; Length 11;
Best Local Similarity 50.0%; Pred. No. 2e+02; 3; Indels 0; Gaps 0;
Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
RN [1]
PP
SEQUENCE.
RC TISSUE=Skin secretion;
RX MEDLINE=00287814; PubMed=22356157;
RA Simeone M., Severini C.; de Blaee D., Barra D., Bossa F.,
Roberts J.D., Melchiorri P., Erspamer V.;
RT "Six novel tachykinin- and bombesin-related peptides from the skin of the Australian frog Pseudophryne guntheri.",
RL Peptides 11:299-304 (1990).
PP SECRETED.
RC TISSUE SPECIFICITY: Skin.
RX DR InterPro: IPR000874; Bombesin.
RA Pfam: PF002044; Bombesin; 1.
DR PROSITE; PS00257; BOMBESIN; 1.
KW Amphibian defense peptide; Bombesin family; Amidation;
NCBI TAXID=8371;
RN [1]
PP
SEQUENCE.
RX TISSUE=Skin secretion; PubMed=1140241;
RA Anastasi A., Erspamer V., Endean R.;
RT "Aminocid composition and sequence of litorin, a bombesin-like nonapeptide from the skin of the Australian leptodactylid frog Litoria aurea.",
RT Experientia 31:510-511 (1975).
RN [2]
PP SEQUENCE (METHYLATED VARIANT).
RX TISSUE=Skin secretion; PubMed=5083546;
RA Anastasi A.; Montecuccchi P.C., Angelucci P., Erspamer V., Endean R.;
RT "Litorin (one 3-litorin, the second bombesin-like peptide occurring in methanol extracts of the skin of the Australian frog Litoria aurea.)",
RT Experientia 33:1289-1289 (1977).
RL -|- SUBCELLULAR LOCATION: Secreted.
CC -|- TISSUE SPECIFICITY: Skin.
CC -|- SIMILARITY: BELONGS TO THE BOMBESIN/NEUROMEDIN B/RANATENSIN FAMILY.
DR PIR: S07204; S07204.
DR InterPro: IPR000874; Bombesin.
DR Pfam: PF002044; Bombesin; 1.
DR PROSITE; PS00257; BOMBESIN; 1.
KW Amphibian defense peptide; Bombesin family; Amidation; Methylation;
KW Pyrrolidone carboxylic acid.
FT MOD RES 1 1 PYRROLIDONE CARBOXYLIC ACID.
FT MOD RES 2 2 METHYLATION (PARTIAL).
FT MOD RES 9 9 AMIDATION.
SQ SEQUENCE 9 AA; 1103 MW; D7CC18862CDC366 CRC64;

Query Match 44.4%; Score 20; DB 1; Length 9;
Best Local Similarity 50.0%; Pred. No. 1.3e+05; 3; Mismatches 3; Indels 0; Gaps 0;
RN [1]
PP
SEQUENCE.
RC TISSUE=Skin secretion;
RX MEDLINE=00287814; PubMed=22356157;
RA Simeone M., Severini C.; de Blaee D., Barra D., Bossa F.,
Roberts J.D., Melchiorri P., Erspamer V.;
RT "Six novel tachykinin- and bombesin-related peptides from the skin of the Australian frog Pseudophryne guntheri.",
RL Peptides 11:299-304 (1990).
PP SECRETED.
RC TISSUE SPECIFICITY: Skin.
RX DR InterPro: IPR000874; Bombesin.
RA Pfam: PF002044; Bombesin; 1.
DR PROSITE; PS00257; BOMBESIN; 1.
KW Pyrrolidone carboxylic acid.
FT MOD RES 1 1 PYRROLIDONE CARBOXYLIC ACID.
FT MOD RES 13 13 AMIDATION.
SQ SEQUENCE 13 AA; 1372 MW; D6D0D24BD98C366 CRC64;
Query Match 44.4%; Score 20; DB 1; Length 13;
Best Local Similarity 50.0%; Pred. No. 4.5e+02; 3; Mismatches 3; Indels 0; Gaps 0;
RN [1]
PP
SEQUENCE.
RC TISSUE=Skin secretion;
RX MEDLINE=75187011; PubMed=1140241;
RA Anastasi A., Erspamer V., Endean R.;
RT "Aminocid composition and sequence of litorin, a bombesin-like nonapeptide from the skin of the Australian leptodactylid frog Litoria aurea.",
RT Experientia 31:510-511 (1975).
RN [2]
PP SEQUENCE (METHYLATED VARIANT).
RX TISSUE=Skin secretion; PubMed=5083546;
RA Anastasi A.; Montecuccchi P.C., Angelucci P., Erspamer V., Endean R.;
RT "Litorin (one 3-litorin, the second bombesin-like peptide occurring in methanol extracts of the skin of the Australian frog Litoria aurea.)",
RT Experientia 33:1289-1289 (1977).
RL -|- SUBCELLULAR LOCATION: Secreted.
CC -|- TISSUE SPECIFICITY: Skin.
CC -|- SIMILARITY: BELONGS TO THE BOMBESIN/NEUROMEDIN B/RANATENSIN FAMILY.
DR PIR: S07204; S07204.
DR InterPro: IPR000874; Bombesin.
DR Pfam: PF002044; Bombesin; 1.
DR PROSITE; PS00257; BOMBESIN; 1.
KW Amphibian defense peptide; Bombesin family; Amidation; Methylation;
KW Pyrrolidone carboxylic acid.
FT MOD RES 1 1 PYRROLIDONE CARBOXYLIC ACID.
FT MOD RES 2 2 METHYLATION (PARTIAL).
FT MOD RES 9 9 AMIDATION.
SQ SEQUENCE 9 AA; 1103 MW; D7CC18862CDC366 CRC64;

Query Match 44.4%; Score 20; DB 1; Length 5;
Best Local Similarity 50.0%; Pred. No. 1.3e+05; 3; Mismatches 3; Indels 0; Gaps 0;
RN [1]
PP
SEQUENCE.
RC TISSUE=Skin secretion;
RX MEDLINE=75187011; PubMed=1140241;
RA Anastasi A.; Montecuccchi P.C., Angelucci P., Erspamer V., Endean R.;
RT "Litorin (one 3-litorin, the second bombesin-like peptide occurring in methanol extracts of the skin of the Australian frog Litoria aurea.)",
RT Experientia 33:1289-1289 (1977).
RL -|- SUBCELLULAR LOCATION: Secreted.
CC -|- TISSUE SPECIFICITY: Skin.
CC -|- SIMILARITY: BELONGS TO THE BOMBESIN/NEUROMEDIN B/RANATENSIN FAMILY.
DR PIR: S07204; S07204.
DR InterPro: IPR000874; Bombesin.
DR Pfam: PF002044; Bombesin; 1.
DR PROSITE; PS00257; BOMBESIN; 1.
KW Amphibian defense peptide; Bombesin family; Amidation; Methylation;
KW Pyrrolidone carboxylic acid.
FT MOD RES 1 1 PYRROLIDONE CARBOXYLIC ACID.
FT MOD RES 2 2 METHYLATION (PARTIAL).
FT MOD RES 9 9 AMIDATION.
SQ SEQUENCE 9 AA; 1103 MW; D7CC18862CDC366 CRC64;

Query Match 44.4%; Score 20; DB 1; Length 5;
Best Local Similarity 50.0%; Pred. No. 1.3e+05; 3; Mismatches 3; Indels 0; Gaps 0;
RN [1]
PP
SEQUENCE.
RC TISSUE=Skin secretion;
RX MEDLINE=95009907; PubMed=7533108;
RA Merrick B.A., Patterson R.M., Wichter L.L., He C., Selkirk J.K.;
RT "Separation and sequencing of familiar and novel murine proteins using preparative two-dimensional gel electrophoresis.",
RT

RL Electrophoresis 15:735-745(1994).
 CC -!- MISCELLANEOUS: ON THE 2D-GEL THE DETERMINED PI OF THIS UNKNOWN
 CC PROTEIN IS: 6.6. ITS MW IS: 19 kDa.
 CC -!- SUBCELLULAR LOCATION: Secreted.
 CC -!- TISSUE/SPECIFICITY: Expressed by the venom duct.
 CC -!- MASS SPECTROMETRY: MW=1088.6; METHOD=MALDI.
 CC -!- SIMILARITY: BELONGS TO THE CONTRYPHAN FAMILY.
 CC
 KW Toxin; Amidation; D-amino acid.
 FT DISULFID 3 9
 FT D-TRYPTOPHAN.
 FT MOD-RES 5 5
 FT AMIDATION.
 SQ SEQUENCE 9 AA; 1091 MW; 8D38676323676EBA CRC64;
 FT MOD-RES 9
 FT D-TRYPTOPHAN.
 FT
 RESULT 6
 LABA_JATMU
 ID LABA_JATMU STANDARD; PRT; 10 AA.
 AC P13270;
 DT 01-JAN-1990 (Rel. 13, Created)
 DT 01-JAN-1990 (Rel. 13, Last sequence update)
 DT 28-FEB-2003 (Rel. 41, Last annotation update)
 DE Labdithin.
 OS Jatropha multifida (Physic nut).
 OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
 OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae;
 OC euroids I; Malpighiales; Euphorbiaceae; Jatropha.
 OX NCBI_TAXID=3996;
 RN [1]
 RP SEQUENCE.
 RC TISSUE=latex;
 RA "Kobasi S.; van der Sluis W.G., Boelens R., T'Hart L.A., Labadie R.P.;
 RT "multifida L. (Euphorbiaceae). Isolation and sequence determination
 RT by means of two-dimensional NMR.";
 RL FEBS Lett. 256:91-96 (1989).
 CC -!- FUNCTION: LABADITIN IS AN ACTIVE PEPTIDE WHICH INHIBITS THE
 CC CLASSICAL PATHWAY OF COMPLEMENT ACTIVATION IN VITRO. ACTIVITY
 CC SEEMS TO BE BASED ON AN INTERACTION WITH C1.
 CC -!- PTM: This is a cyclic peptide.
 CC -!- DISEASE: LATEX OF THIS PLANT IS USED IN FOLKLORIC MEDICINE FOR
 CC TREATMENT OF INFECTED WOUNDS, SKINS INFECTIONS AND SCABES.
 SQ SEQUENCE 10 AA; 1089 MW; D98AAD6362D1B362 CRC64;

Query Match 42.4%; Score 19; DB 1; Length 10;
 Best Local Similarity 50.0%; Pred. No. 5.6e+02;
 Matches 2; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 WWRW 4
 Db 1 WIGRW 5

RESULT 6
 LABA_JATMU
 ID LABA_JATMU STANDARD; PRT; 10 AA.
 AC P13270;
 DT 01-FEB-1995 (Rel. 31, Created)
 DT 01-FEB-1995 (Rel. 31, Last sequence update)
 DT 16-OCT-2001 (Rel. 40, Last annotation update)
 DE Hypothetical protein in pnp 3' region (ORF3) (Fragment).
 OS Photorhabdus luminescens (Xenorhabdus luminescens).
 OC Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
 OC Enterobacteriaceae; Photorhabdus.
 OX NCBI_TAXID=29488;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=K122;
 RX MEDLINE=94266731; PubMed=8206856;
 RA Clarke D.J., Dowds B.C.A.;
 RT "The gene coding for polynucleotide phosphorylase in Photorhabdus sp. strain K122 is induced at low temperatures.";
 RL J. Bacteriol. 176:3775-3784 (1994).
 CC This SWISS-PROT entry is copyright. It is produced through a collaboration
 CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
 CC the European Bioinformatics Institute. There are no restrictions on its
 CC use by non-profit institutions as long as its content is in no way
 CC modified and this statement is not removed. Usage by and for commercial
 CC entities requires a license agreement (See <http://www.isb-sib.ch/announce/>
 CC or send an email to license@isb-sib.ch).
 CC
 DR EMBL; X76069; CAA53167.1;
 KW Hypothetical protein.

RESULT 7
 COW - COW CONVE STANDARD; PRT; 9 AA.
 ID COW CONVE
 AC P33047;
 DT 16-OCT-2001 (Rel. 40, Last sequence update)
 DT 16-OCT-2001 (Rel. 40, Last annotation update)
 DE CONTRYPHAN-VN.
 OS CONUS VENTRICOSUS (Mediterranean cone).
 OC Eukaryota; Metazoa; Mollusca; Gastropoda; Orthogastropoda;
 OC Neogastropoda; Caenogastropoda; Sorboconcha; Hypsogastropoda;
 OC Apogastropoda; Conoidea; Conidae; Conus.
 RN [1]
 RP SEQUENCE, SYNTHESIS, AND MASS SPECTROMETRY.
 RC TISSUE=venom;
 RX MEDLINE=21547785; PubMed=1168895;
 RA Massilia G.R., Schinina M.E., Ascenzi P., Politicelli F.;
 RT "Contryphan-Vn: a novel peptide from the venom of the Mediterranean
 RT snail Conus ventricosus.";

Query Match 40.0%; Score 18; DB 1; Length 13;
 Best Local Similarity 50.0%; Pred. No. 1.1e+03;
 Matches 2; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 WWRW 4
 Db 4 WTVW 7

RESULT 7
 COW - COW CONVE STANDARD; PRT; 9 AA.
 ID COW CONVE
 AC P33047;
 DT 16-OCT-2001 (Rel. 40, Last sequence update)
 DT 16-OCT-2001 (Rel. 40, Last annotation update)
 DE CONTRYPHAN-VN.
 OS Thoremyzon tessulatum (Leech).
 OC Eukaryota; Metazoa; Annelida; Clitellata; Hirudinida; Hirudinea;

OC	Rhynchobellida; Glossiphoniidae; Thercomyzon.	OC	Pelodytinae; Litoria.
OX	NCBI_TaxID=13286;	OX	NCBI_TaxID=104895;
RN	[1]	RN	[1]
RP	SEQUENCE.	RP	SEQUENCE.
RC	TISSUE=Brain;	RC	TISSUE=Skin secretion;
RX	MEDLINE=94298944; PubMed=8026574;	RA	Wabnitz P.A., Bowie J.H., Tyler M.J., Wallace J.C.;
RA	Salzet M., Wattie C., Bulet P., Malecha J.;	RT	"Peptides from the skin glands of the Australian buzzing tree frog Litoria electrica. Comparison with the skin peptides from Litoria rubella.";
RT	"Isolation and structural characterization of a novel peptide related to gamma-melanocyte stimulating hormone from the brain of the leech Thermomyzon tessulatum.";	RT	Aust. J. Chem. 52:639-645 (1999).
RT	FEBS Lett. 348:102-106 (1994).	- - SUBCELLULAR LOCATION: Secreted.	
CC	- - SIMILARITY: BELONGS TO THE POMC FAMILY.	CC	- - TISSUE SPECIFICITY: Skin.
DR	PIR; S4598; S45698.	KW	Amphibian defense peptide; Amidation.
KW	Hormone; Amidation.	FT	MOD RES 13 AMIDATION.
FT	MOD RES 11 AMIDATION.	FT	SEQUENCE 13 AA; 1598 MW; C1808EP33B57322 CRC64;
SQ	SEQUENCE 11 AA; 1486 MW;	SQ	SEQUENCE 13 AA; 1598 MW; C1808EP33B57322 CRC64;
Qy	1 WVRWHF 6	Query Match	Score 17; DB 1; Length 13;
Db	1 YVMGHF 6	Best Local Similarity	66.7%; Pred. No. 1.5e+01;
Qy	1 WVRWHF 6	Matches	1; Mismatches 0; Indels 0; Gaps 0;
Db	1 YVMGHF 6	Qy	2 VWR 4
Db	6 VPKW 8	Db	6 VPKW 8
RESULT 10		RESULT 12	
ID	EI21_LITRU	ID	TEML_RANTE
STANDARD;	PRT;	STANDARD;	PRT;
13 AA.		13 AA.	
AC	P82057;	AC	PS7104;
DT	28-FEB-2003. (Rel. 41, Created)	DT	16-OCT-2001 (Rel. 40, Created)
DT	28-FEB-2003. (Rel. 41, Last sequence update)	DT	16-OCT-2001 (Rel. 40, Last sequence update)
DT	15-SEP-2003 (Rel. 42, Last annotation update)	DT	15-SEP-2003 (Rel. 42, Last annotation update)
DE	Electrin 2.1.	DB	Temporin L.
OS	Litoria rubella (Desert tree frog).	OS	Rana temporaria (European common frog).
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Amphibia; Batrachia; Anura; Neobatrachia; Ranidae; Rana.	OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Amphibia; Batrachia; Anura; Neobatrachia; Ranidae; Rana.
OC	Amphibia; Batrachia; Anura; Neobatrachia; Ranidae; Rana.	OX	NCBI_TaxID=8407;
OC	Pelodytinae; Litoria.	RN	[1]
OX	NCBI_TaxID=104895;	RP	SEQUENCE.
RP	SEQUENCE.	RC	TISSUE=Skin secretion;
RC	TISSUE=Skin secretion;	RX	MEDLINE=97175050; PubMed=9022710;
RA	Wabnitz P.A., Bowie J.H., Tyler M.J., Wallace J.C.;	RA	Simmaco M., Mignogna G., Canofeni S., Miele R., Mangoni M.L., Barra D.;
RT	"Peptides from the skin glands of the Australian buzzing tree frog Litoria electrica. Comparison with the skin peptides from Litoria rubella.";	RT	"Temporins, antimicrobial peptides from the European red frog Rana temporaria";
RT	Litoria electrica. Comparison with the skin peptides from Litoria rubella.;	RT	Biochem. 242:788-792 (1996).
RT	Aust. J. Chem. 52:639-645 (1999).	CC	- - FUNCTION: HAS ANTI-BACTERIAL ACTIVITY AGAINST GRAM-NEGATIVE AND GRAM-POSITIVE BACTERIA.
CC	- - SUBCELLULAR LOCATION: Secreted.	CC	- - TISSUE SPECIFICITY: Skin.
CC	- - TISSUE SPECIFICITY: Skin.	CC	- - SIMILARITY: Belongs to the brevinin family.
KW	Amphibian defense peptide; Antibiotic; Amidation.	KW	Amphibian defense peptide; Antibiotic; Amidation.
FT	MOD RES 13 AMIDATION.	FT	MOD RES 13 AMIDATION.
SQ	SEQUENCE 13 AA; 1599 MW; C1808EP33B57322 CRC64;	SQ	SEQUENCE 13 AA; 1641 MW; 9EBDCB1FAFF7C325 CRC64;
Qy	2 VWR 4	Query Match	Score 17; DB 1; Length 13;
Db	6 VPKW 8	Best Local Similarity	50.0%; Pred. No. 1.5e+03;
Qy	2 VWR 4	Matches	2; Mismatches 2; Indels 0; Gaps 0;
Db	6 VPKW 8	Qy	1 WVRW 4
Db	1 FVQW 4	Db	1 FVQW 4
RESULT 11		RESULT 13	
ID	EI22_LITRU	ID	ACI_THUAL
STANDARD;	PRT;	STANDARD;	PRT;
13 AA.		13 AA.	
AC	P82058;	AC	P18691;
DT	28-FEB-2003 (Rel. 41, Created)	DT	01-NOV-1990 (Rel. 16, Created)
DT	28-FEB-2003 (Rel. 41, Last sequence update)	DT	01-NOV-1990 (Rel. 16, Last sequence update)
DT	15-SEP-2003 (Rel. 42, Last annotation update)	DT	01-NOV-1990 (Rel. 16, Last annotation update)
DE	Electrin 2.2.	DE	Angiotensin-converting enzyme inhibitor.
OS	Litoria rubella (Desert tree frog).	OS	Thunnus albacares (Yellowfin tuna) (Neothunnus macropterus).
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Amphibia; Batrachia; Anura; Neobatrachia; Bufonoidea; Hylidae;	OC	

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
 OC Actinopterygii; Neopterygii; Telostei; Buteleostei; Neoteleostei;
 OC Acanthomorpha; Thunnus;
 OC NCBI_TaxID=8236;
 RN [1]
 RP SEQUENCE;
 RX MEDLINE=8322322; PubMed=3415688;
 RX TISSUE=muscle;
 RA Kohama Y., Matsumoto S., Oka H., Teramoto T., Okabe M., Mimura T.,
 RT "Isolation of angiotensin-converting enzyme inhibitor from tuna
 muscle";
 RT Biochem. Biophys. Res. Commun. 155:332-337(1988).
 DR PIR; A31570; A31570 CR064;
 SQ SEQUENCE 8 AA; 953 MW; 6A863733051F1B7 CRC64;
 Query Match 35.6%; Score 16; DB 1; Length 8;
 Best Local Similarity 33.3%; Pred. No. 1.3e+05;
 Matches 1; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
 QY 2 VRW 4
 Db 4 IKW 6

RESULT 14
 MLA_ANOCA STANDARD; PRT; 13 AA.
 AC P41589;
 DT 01-NOV-1995 (Rel. 32, Created)
 DT 01-NOV-1995 (Rel. 32, Last sequence update)
 DT 16-OCT-2001 (Rel. 40, Last annotation update)
 DE Melanotropin alpha (Alpha-MSH)
 OS Anolis carolinensis (Green anole) (American chameleon)
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
 OC Lepidosauria; Squamata; Iguania; Iguanidae; Polychrotinae; Anolis.
 NCBI_TaxID=28377; [1]
 RN RP SEQUENCE;
 RC TISSUE=Pituitary; MEDLINE=02270473; PubMed=1667689;
 RX Dories R.M., Lancha A., Rand-Weaver M., Jankelow L., Adamczyk D.L.;
 RT "Detection of a novel sequence change in the major form of alpha-MSH
 isolated from the intermediate pituitary of the reptile, *Anolis
 carolinensis*";
 RT Peptides 12:1261-1266(1991).
 RT -1- SIMILARITY: BELONGS TO THE POMC FAMILY.
 DR InterPro:IPR001941; Mcortin ACTH.
 DR Pfam: PF00976; ACTH_domain; [1].
 KW Hormone; Amidation.
 FT MOD RES 13 13 AMIDATION
 SQ SEQUENCE 13 AA; 1608 MW; FF990A73BB09C1 CRC64;

Query Match 35.6%; Score 16; DB 1; Length 13;
 Best Local Similarity 100.0%; Pred. No. 2.3e+03;
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 3 RW 4
 Db 8 RW 9

Search completed: December 3, 2003, 11:51:51
 Job time : 9.33333 secs

OC Mammalia; Butheria; Cetartiodactyla; Tylopoda; Camelidae; Camelus.
 OC NCBI_TaxID=9838; 9796;
 RN [1]
 RP SEQUENCE;
 RC SPECIES=C_dromedarius;
 RX SPECIES=C_dromedarius; PubMed=1125179;
 RA LI C.H., Danho W.O., Chung D., Rao A.J.;
 RT "Isolation, characterization, and amino acid sequence of
 melanotropins from camel pituitary glands.";
 RL Biochemistry 14:947-952(1975).
 RN [2]
 RP SEQUENCE;
 RC SPECIES=Horse; TISSUE=Pituitary;
 RA Dixon J.S., Li C.H.;
 RT "The isolation and structure of alpha-melanocyte-stimulating hormone
 from horse pituitaries."
 RT J. Am. Chem. Soc. 82:4568-4572(1960).
 CC -1- SIMILARITY: BELONGS TO THE POMC FAMILY.
 DR PIR; A01464; MTCMAD.
 DR PIR; A91785; MTHROAD.
 DR InterPro:IPR001941; Mcortin ACTH.
 DR Pfam: PF00976; ACTH_domain; [1].
 KW Hormone; Acetylation; Amidation.
 FT MOD_RES 1 1 ACETYLATION (IN ABOUT 50% OF CAMEL
 MOLECULES).
 FT MOD_RES 13 13 AMIDATION;
 SQ SEQUENCE 13 AA; 1624 MW; FF991C958BB09C1 CRC64;

Query Match 35.6%; Score 16; DB 1; Length 13;
 Best Local Similarity 100.0%; Pred. No. 2.3e+03;
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 3 RW 4
 Db 8 RW 9

Search completed: December 3, 2003, 11:51:51
 Job time : 9.33333 secs

OC Mammalia; Butheria; Cetartiodactyla; Tylopoda; Camelidae; Camelus.
 OC NCBI_TaxID=9838; 9796;
 RN [1]
 RP SEQUENCE;
 RC SPECIES=C_dromedarius;
 RX SPECIES=C_dromedarius; PubMed=1125179;
 RA LI C.H., Danho W.O., Chung D., Rao A.J.;
 RT "Isolation, characterization, and amino acid sequence of
 melanotropins from camel pituitary glands.";
 RL Biochemistry 14:947-952(1975).
 RN [2]
 RP SEQUENCE;
 RC SPECIES=Horse; TISSUE=Pituitary;
 RA Dixon J.S., Li C.H.;
 RT "The isolation and structure of alpha-melanocyte-stimulating hormone
 from horse pituitaries."
 RT J. Am. Chem. Soc. 82:4568-4572(1960).
 CC -1- SIMILARITY: BELONGS TO THE POMC FAMILY.
 DR PIR; A01464; MTCMAD.
 DR PIR; A91785; MTHROAD.
 DR InterPro:IPR001941; Mcortin ACTH.
 DR Pfam: PF00976; ACTH_domain; [1].
 KW Hormone; Acetylation; Amidation.
 FT MOD_RES 1 1 ACETYLATION (IN ABOUT 50% OF CAMEL
 MOLECULES).
 FT MOD_RES 13 13 AMIDATION;
 SQ SEQUENCE 13 AA; 1624 MW; FF991C958BB09C1 CRC64;

Query Match 35.6%; Score 16; DB 1; Length 13;
 Best Local Similarity 100.0%; Pred. No. 2.3e+03;
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 3 RW 4
 Db 8 RW 9

RESULT 15
 MLA_CAMDR STANDARD; PRT; 13 AA.
 AC ID_MLA_CAMDR P01198; 21-JUL-1986 (Rel. 01, Created)
 DT DT 16-OCT-2001 (Rel. 40, Last annotation update)
 DE Melanotropin alpha (Alpha-MSH).
 DE Camelus dromedarius (Dromedary) (Arabian camel), and
 DE Equus caballus (Horse).
 OS Equus caballus; Chordata; Craniata; Vertebrata; Euteleostomi;

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OM protein - Protein search, using sw model

Run on: December 3, 2003, 11:48:05 ; Search time 26.3333 Seconds
(without alignments)

58.797 Million cell updates/sec

Title: US-09-912-414-9

Perfect score: 31

Sequence: 1 WXXWXP 6

Scoring table: BLOSUM62

Gapext 0.5

Searched: 830525 seqs, 258052604 residues

Total number of hits satisfying chosen parameters: 3526

Minimum DB seq length: 0
Maximum DB seq length: 15

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing First 45 summaries

Database: SPTREMBI, 23.1*

SUMMARIES						
Result No.	Score	Query Match	Length	DB	ID	Description
1	21	67.7	9	2	Q9r5M1	Q9r5M1 staphylococcus aureus
2	21	67.7	9	9	Q3B3366	Q3B3366 bacterium
3	20	64.5	9	9	Q8SHF0	Q8SHF0 chamaeleo chamaeleon
4	20	64.5	12	7	Q77919	Q77919 pseudotachys
5	20	64.5	13	4	Q16406	Q16406 homo sapiens
6	20	64.5	15	2	Q53580	Q53580 rhodobacter sphaeroides
7	17	54.8	8	8	Q94VC1	Q94VC1 varanus
8	17	54.8	11	8	Q94V77	Q94V77 heloderma suspectum
9	17	54.8	13	4	Q9UDC6	Q9UDC6 homo sapiens
10	17	54.8	14	10	Q9SAP8	Q9SAP8 pisum sativum
11	16	51.6	8	8	Q94VF6	Q94VF6 varanus
12	16	51.6	8	8	Q8WGD7	Q8WGD7 lombricus
13	16	51.6	8	8	Q94V88	Q94V88 varanus
14	16	51.6	8	8	Q9td02	Q9td02 terranator
15	16	51.6	8	8	Q974Y2	Q974Y2 bacterina
16	16	51.6	8	8	Q94VJ4	Q94VJ4 varanus

OC	Viruses; ssDNA viruses; Microviridae; Microvirus.	RA	Malaga-Trillo E.; Zaleska-Rutczynska Z.; McAndrew B.; Vincek V.;
OX	NCBI_TAXID=10841;	RA	Figueiro F.; Sultmann H.; Klein J.;
RN	[1] SEQUENCE FROM N.A. PubMed=2963134;	RT	"Linkage relationships and haplotype polymorphism among cichlid min-
RP	MEDLINE=88118996; PubMed=2963134;	RT	class II B loci";
RX	BUCKLEY K.J.; HAYASHI M.;	RT	Genetics 149:1527-1537(1998).
RA	"Role of premature translational termination in the regulation of	DR	EMBL; AF050032; AAC41371.1; -.
RT	expression of the phiX174 lysis gene.";	FT	NON TER 1
RT	J. Mol. Biol. 198:59-60(1987).	FT	NON TER 12
RL	DR EMBL; X07809; CAA30668.1; -.	SEQUENCE	12 AA; 12
FT	NON TER 9	Score	20; DB 7; Length 12;
SQ	SEQUENCE 9 AA; 1207 MW; C093B37731B36412 CRC64;	Best Local Similarity	50.0%; Pred. No. 1.7e+03; Pred. No. 1.7e+03;
Qy	Query Match 67.7%; Score 21; DB 9; Length 9;	Matches	0; Mismatches 2; Indels 0; Gaps 0;
	Best Local Similarity 50.0%; Pred. No. 8.3e+05;	Qy	1 WXXW 4
	Matches 2; Conservative 0; Mismatches 2; Indels 0; Gaps 0;	Db	1 WDFW 4
Db	1 WXXW 4	RESULT 5	
	4 WTLW 7	ID	Q16406
		PRELIMINARY;	PRT;
		AC	Q16406;
		DT	01-NOV-1996 (TREMBLrel. 01, Created)
		DT	01-NOV-1996 (TREMBLrel. 01, Last sequence update)
		DT	01-MAY-1999 (TREMBLrel. 10, Last annotation update)
		DE	GHHR-R protein (Fragment).
		GN	GHHR-R.
		OS	Homo sapiens (Human).
		OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
		OC	Mammalia; Eutheria; Primates; Catarhini; Hominidae; Homo.
		NCBI_TaxID=3606;	
		OX	[1]
		RN	SEQUENCE FROM N.A.
		RX	MEDLINE=96001284; PubMed=7559877;
		RA	Hashimoto K.; Koga M.; Motoimura T.; Kasayama S.; Kouhara H.;
		RA	Ohnishi T.; Arita N.; Hayakawa T.; Sato B.; Kishimoto T.;
		RT	"Identification of alternatively spliced messenger ribonucleic acid
		RT	encoding truncated growth hormone-releasing hormone receptor in human
		RT	pituitary adenomas";
		RT	J. Clin. Endocrinol. Metab. 80:2933-2939 (1995).
		DR	EMBL; S79912; ADP14318.1; -.
		FT	NON TER 1
		SEQUENCE	13 AA; 1612 MW; C019D7D255D66362 CRC64;
		Score	20; DB 4; Length 13;
		Best Local Similarity	50.0%; Pred. No. 1.3e+03; Pred. No. 1.3e+03;
		Matches	0; Mismatches 2; Indels 0; Gaps 0;
Db	1 WXXW 4	Qy	1 WXXW 4
	2 WLRW 5	Db	7 WGIW 10
Db	1 WXXW 4	RESULT 6	
	2 WLRW 5	ID	Q53350
		PRELIMINARY;	PRT;
		AC	Q53350;
		DT	01-NOV-1996 (TREMBLrel. 01, Created)
		DT	01-NOV-1996 (TREMBLrel. 01, Last sequence update)
		DT	01-DEC-2001 (TREMBLrel. 19, Last annotation update)
		DE	Light-harvesting complex I alpha polypeptide (Fragment).
		GN	PUFA.
		OS	Rhodobacter capsulatus (Rhodopseudomonas capsulata).
		OC	Bacteria; Proteobacteria; Alpha-proteobacteria; Rhodobacterales;
		OC	Rhodobacteraceae; Rhodobacter.
		NCBI_TaxID=1061;	[1]
		OX	SEQUENCE FROM N.A.
		RX	MEDLINE=92234963; PubMed=1569029;
		RA	Richer P.; Brand M.; Drews G.;
		RT	"Characterization of LHI- and LHI+ Rhodobacter capsulatus pufA mutants.";
		RT	

RL J. Bacteriol. 174:3030-3041(1992).
 DR EMBL; S97552; AAC66406.1; -.
 FT NON_TER 15 15
 SQ SEQUENCE 15 AA; 2054 MW;
 3561FE41391D31A CRC64;

Query Match Score 20; DB 2; Length 15;
 Best Local Similarity 50.0%; Pred. No. 2e+03;
 Matches 2; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 WXXW 4
 Db 8 WKIW 11

RESULT 7

Q94VC1 PRELIMINARY; PRT; 8 AA.
 ID Q94VC1;
 AC Q94VC1;
 DT 01-DEC-2001 (TREMBrel. 19, Created)
 DT 01-DEC-2001 (TREMBrel. 19, Last sequence update)
 DT 01-DEC-2001 (TREMBrel. 19, Last annotation update)
 DE Cytochrome c oxidase subunit I (Fragment).
 COI.
 OS Varanus rudicollis
 OG Mitochondrion.
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Lepidosauria; Squamata; Scleroglossa; Anguimorpha; Varanidae; Varanus.
 OX NCBI_TAXID=169851;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA RT "Mitochondrial DNA evidence and evolution in Varanoidea (Squamata).";
 RL Cladistics 17:0-0(2001).
 DR EMBL; AF07521; AAU10116.1; -.
 KW Mitochondrion.
 FT NON_TER 8 8
 SQ SEQUENCE 8 AA; 1053 MW; FE2729DSA36411A6 CRC64;

Query Match Score 17; DB 8; Length 8;
 Best Local Similarity 66.7%; Pred. No. 8.3e+05;
 Matches 2; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 4 WXF 6
 Db 4 WSF 6

RESULT 8

Q94V77 PRELIMINARY; PRT; 11 AA.
 ID Q94V77;
 AC Q94V77;
 DT 01-DEC-2001 (TREMBrel. 19, Created)
 DT 01-DEC-2001 (TREMBrel. 19, Last sequence update)
 DT 01-DEC-2001 (TREMBrel. 19, Last annotation update)
 DE Cytochrome c oxidase subunit I (Fragment).
 COI.
 OS Heloderma suspectum (Gila monster).
 OG Mitochondrion.
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Lepidosauria; Squamata; Scleroglossa; Anguimorpha; Helodermatidae;
 Heloderma.
 OX NCBI_TAXID=85554;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA RT "Mitochondrial DNA evidence and evolution in Varanoidea (Squamata).";
 RL Cladistics 17:0-0(2001).
 DR EMBL; AF07540; AAU10172.1; -.
 KW Mitochondrion.
 FT NON_TER 11 11
 SQ SEQUENCE 11 AA; 1396 MW; 8E3A6DE0D5A36411 CRC64;

Query Match Score 17; DB 8; Length 11;

Best Local Similarity 66.7%; Pred. No. 4.8e+03;
 Matches 2; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 4 WXF 6
 Db 6 WSP 8

RESULT 9

Q9UDC6 PRELIMINARY; PRT; 13 AA.
 ID Q9UDC6;
 AC Q9UDC6;
 DT 01-MAY-2000 (TREMBrel. 13, Created)
 DT 01-MAY-2000 (TREMBrel. 13, Last sequence update)
 DT 01-JUN-2002 (TREMBrel. 21, Last annotation update)
 DE ENDOTHERIUM-derived RELATING factor, nitric oxide synthase
 DE (Fragment).
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Butheria; Primates; Catarhini; Hominidae; Homo.
 OX NCBI_TAXID=606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=9305457; PubMed=1385404;
 RA Janssens S. P.; Simouchi A.; Quertermous T.; Bloch K.D.; Bloch D.B.;
 RT "Cloning and expression of a cDNA encoding human endothelium-derived
 relating factor/nitric oxide synthase.";
 RL J. Biol. Chem. 267:22694-22694(1992).
 FT NON_TER 1 1
 FT NON_TER 13 13
 SQ SEQUENCE 13 AA; 1390 MW; 3231B6DFEC7EB867 CRC64;

Query Match Score 17; DB 4; Length 13;
 Best Local Similarity 66.7%; Pred. No. 5.5e+03;
 Matches 2; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 4 WXF 6
 Db 1 WAF 3

RESULT 10

Q9SAP8 PRELIMINARY; PRT; 14 AA.
 ID Q9SAP8;
 AC Q9SAP8;
 DT 01-MAY-2000 (TREMBrel. 13, Created)
 DT 01-MAY-2000 (TREMBrel. 13, Last sequence update)
 DE LHCP1 (14AA) (Fragment).
 OS Pisum sativum (Garden pea).
 OC Eukaryota; Viriplantae; Streptophyta; Embryophyta; Tracheophyta;
 OC euroids I; Fabales; Fabaceae; Papilioideae; Viciae; Pisum.
 OX NCBI_TAXID=3888;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAINivar. Alaska;
 RA Dobres M.S.; Abler M.L.; Thompson W.F.;
 RT "Sequence of the 3' untranslated region of a pea.";
 RL Nucleic Acids Res. 0:10-0(1988).
 DR EMBL; X06822; CAA29970.1; -.
 FT NON_TER 1 1
 SQ SEQUENCE 14 AA; 1537 MW; D55621B9906BA7AD CRC64;

Query Match Score 17; DB 10; Length 14;
 Best Local Similarity 66.7%; Pred. No. 5.8e+03;
 Matches 2; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 4 WXF 6
 Db 4 WAF 6

RESULT 11	Q94VF6	PRELIMINARY;	PRT;	8 AA.	DT 01-DEC-2001 (TREMBLrel. 19, Last sequence update)
ID Q94VF6;					DT 01-DEC-2001 (TREMBLrel. 19, Last annotation update)
AC Q94VF6;					DT 01-DEC-2001 (TREMBLrel. 19, Last annotation update)
DT 01-DEC-2001 (TREMBLrel. 19, Created)					DE Cytochrome c oxidase subunit I (Fragment).
DT 01-DEC-2001 (TREMBLrel. 19, Last sequence update)					GN COI.
DT 01-DEC-2001 (TREMBLrel. 19, Last annotation update)					OS Varanus tristis.
DE Cytochrome c oxidase subunit I (Fragment).					OC Mitochondrion.
GN COI.					Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OS Varanus jobiensis.					OC Lepidosaurs; Squamata; Scleroglossa; Anguimorpha; Varanidae; Varanus.
OG Mitochondrion.					OC Lepidosaurs; Squamata; Scleroglossa; Anguimorpha; Varanidae; Varanus.
OC Lepidosaurs; Squamata; Chordata; Craniata; Vertebrata; Euteleostomi;					OC Lepidosaurs; Squamata; Scleroglossa; Anguimorpha; Varanidae; Varanus.
OC Lepidosaurs; Squamata; Scleroglossa; Anguimorpha; Varanidae; Varanus.					OC Lepidosaurs; Squamata; Scleroglossa; Anguimorpha; Varanidae; Varanus.
RN [1]					RN [1]
RP SEQUENCE FROM N.A.					RN [1]
AST J.C.					RN [1]
RT "Mitochondrial DNA evidence and evolution in Varanoidea (Squamata).";					RN [1]
RL Cladistics 17:0-0(2001).					RN [1]
DR EMBL; AF07507; AAU10075.1; -.					RN [1]
KW Mitochondrion.					RN [1]
FT NON TER 8					RN [1]
SQ SEQUENCE 8 AA; 1144 MW; EFD729DB436411A6 CRC64;					RN [1]
Query Match 51.6%; Score 16; DB 8; Length 8;					RN [1]
Best Local Similarity 66.7%; Pred. No. 8.3e+05;					RN [1]
Matches 2; Conservative 0; Mismatches 1; Indels 0; Gaps 0;					RN [1]
Qy 4 WXF 6					RN [1]
Db 4 WYP 6					RN [1]
					RN [1]
RESULT 14					RN [1]
Q9TDD02					RN [1]
ID Q9TDD02;					RN [1]
AC Q9TDD02;					RN [1]
DT 01-MAY-2000 (TREMBLrel. 13, Created)					RN [1]
DT 01-MAY-2000 (TREMBLrel. 13, Last sequence update)					RN [1]
DE Cytochrome c oxidase subunit I (Fragment).					RN [1]
OS Terranatos dolichopterus.					RN [1]
OG Mitochondrion.					RN [1]
OC Actinopterygii; Neopterygii; Teleostei; Euteleostomi;					RN [1]
OC Acanthomorpha; Acanthopterygii; Percormorpha; Atherinomorpha;					RN [1]
OC Cyprinodontiformes; Aplocheilidae; Rivulinae; Terranatos.					RN [1]
OC NCBI_TaxID=61836;					RN [1]
OX					RN [1]
RP SEQUENCE FROM N.A.					RN [1]
RT Hebeck T., Larson A., "The evolution of diapause in the killifish family Rivulidae (Atherinomorpha, Cyprinodontiformes): A molecular phylogenetic and biogeographic perspective," Evolution 53:1200-1216(1999).					RN [1]
RT EMBL; AF092121; AF03041.1; -.					RN [1]
KW Mitochondrion.					RN [1]
FT NON TER 8					RN [1]
SQ SEQUENCE 8 AA; 1084 MW; FOC9D3640DD44056 CRC64;					RN [1]
Query Match 51.6%; Score 16; DB 8; Length 8;					RN [1]
Best Local Similarity 66.7%; Pred. No. 8.3e+05;					RN [1]
Matches 2; Conservative 0; Mismatches 1; Indels 0; Gaps 0;					RN [1]
Qy 4 WXF 6					RN [1]
Db 6 WFP 8					RN [1]
					RN [1]
RESULT 15					RN [1]
Q9TAY2					RN [1]
ID Q9TAY2;					RN [1]
AC Q9TAY2;					RN [1]
DT 01-MAY-2000 (TREMBLrel. 13, Created)					RN [1]
DT 01-MAY-2000 (TREMBLrel. 13, Last sequence update)					RN [1]
DE COI gene product (Fragment).					RN [1]
AC NCBI_TaxID=177234;					RN [1]
RN [1]					RN [1]
RP SEQUENCE FROM N.A.					RN [1]
RA Morrison C.L., Harvey A.W., Lavery S., Tieu K., Huang Y., Cunningham C.W.; Submitted (OCT-2001) to the EMBL/GenBank/DBJ databases.					RN [1]
RT "Mitochondrial gene rearrangements support a hypothesis of parallel evolution to the crab-like form."					RN [1]
RT Submitted (OCT-2001) to the EMBL/GenBank/DBJ databases.					RN [1]
DR EMBL; AF136035; AAU1611.1; -.					RN [1]
KW Mitochondrion.					RN [1]
FT NON TER 1					RN [1]
FT 1038 MW; CSB5B9C733640321 CRC64;					RN [1]
SQ SEQUENCE 8 AA; 1038 MW; CSB5B9C733640321 CRC64;					RN [1]
Query Match 51.6%; Score 16; DB 8; Length 8;					RN [1]
Best Local Similarity 66.7%; Pred. No. 8.3e+05;					RN [1]
Matches 2; Conservative 0; Mismatches 1; Indels 0; Gaps 0;					RN [1]
Qy 4 WXF 6					RN [1]
Db 4 WLP 6					RN [1]
					RN [1]
RESULT 13					RN [1]
Q94V88					RN [1]
ID Q94V88					RN [1]
AC Q94V88;					RN [1]

OS Asterina pectinifera (Starfish).
OG Mitochondrion.
OC Eukaryota; Metazoa; Echinodermata; Eleutheropoda; Asterozoa;
OC Asteroides; Valvataceae; Valvatida; Asterinidae; Asterina.
OX NCBI_TaxID=7594;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=8354669; PubMed=2766382;
RA Jacobs H.T., Asakawa S., Araki T., Miura K., Smith M.J., Watanabe K.;
RT "Conserved tRNA gene cluster in starfish mitochondrial DNA.";
RL Curr. Genet. 15:193-206(1989).
DR EMBL; X16586; CAA34767.1; -.
KW Mitochondrion.
FT NON-TER 8
SQ SEQUENCE 8 AA; 1114 MW; F0C9D36415B736D6 CRC64;
Query Match 51.6%; Score 16; DB 8; Length 8;
Best Local Similarity 66.7%; Pred. No. 8.3e-05;
Matches 2; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 4 WXF 6
Db 6 WFF 8

Search completed: December 3, 2003, 11:53:24
Job time : 27.333 secs

Result No.	Query	Score	Match	Length	DB	ID	Description
1	21	67.7	10	1	LABA_JATMU		P13270 jatropha mu
2	19	61.3	9	1	COW_CONVE		P83047 conus ventr
3	14	45.2	9	1	LITR_PHYRO		P08946 phyllomedus
4	14	45.2	10	1	GON1_ALLMI		P37041 alligator m
5	14	45.2	10	1	GON3_ONCKE		P20367 oncorhynchu
6	14	45.2	11	1	RANC_RANPI		P08951 rana pipien
7	13	41.9	8	1	RT34_BOVIN		P82929 bos taurus
8	13	41.9	9	1	LIT0_LITAU		P08945 litoria aur
9	13	41.9	10	1	HTF_TARAT		P14596 tabanus atr
10	13	41.9	12	1	UR2A_CATTC		P04558 catostomus
11	13	41.9	12	1	UR2B_CATCO		P04559 catostomus
12	13	41.9	12	1	UR2B_CYPICA		P04561 cyprinus ca
13	13	41.9	12	1	UR2B_GILMI		P01147 gillichthys
14	13	41.9	12	1	UR2_POLSP		P81022 polyodon sp
15	13	41.9	12	1	UR2_SCYCA		P35490 scyliorhinu
16	13	41.9	13	1	BOM1_PSECU		P42991 pseudobryn
17	12	38.7	6	1	LORK1_LOOMI		P41491 locusta mig
18	12	38.7	8	1	LCK2_LEUMA		P21141 leucophaea
19	12	38.7	8	1	LCK5_1LEUMA		P19987 leucophaea
20	12	38.7	8	1	LCK7_1LEUMA		P19989 leucophaea
21	12	38.7	10	1	ARGL_AGRAE		P83465 agrocybe ae
22	12	38.7	10	1	CA12_LITCI		P82086 litoria cit
23	12	38.7	10	1	CAER_LITXA		P56264 litoria xan
24	12	38.7	10	1	GON1_CHEPLU		P80677 cheilosoma
25	12	38.7	13	1	YONP_PHOLU		P41122 photo-rhabdu
26	12	38.7	15	1	RM12_YEAST		P36522 sacccharomy
27	11	35.5	4	1	OCP3_OCTMI		P58649 octopus min
28	11	35.5	5	1	BSP7_BOTIN		P30425 bothrops in
29	11	35.5	5	1	UF01_MOUSE		P38639 mus musculus
30	11	35.5	6	1	E101_LITRU		P82096 litoria rub
31	11	35.5	7	1	BRHP_CONIM		P58803 conus imper
32	11	35.5	7	1	TPPF_PACDA		P83455 pachymedusa
33	11	35.5	7	1	TY51_LITRU		P82065 litoria rub

RT "Contryphan-Vn: a novel peptide from the venom of the Mediterranean snail *Conus ventricosus*.";
 RT Biochem. Biophys. Res. Commun. 288:908-913 (2001).
 RL SUBCELLULAR LOCATION: Secreted.
 CC TISSUE SPECIFICITY: Expressed by the venom duct.
 CC MASS SPECTROMETRY: MW=1088.6; MBTHD=MALDI.
 CC SIMILARITY: BELONGS TO THE CONTRYPAN FAMILY.
 KW Toxin; Amidation; D-amino acid.
 PT DISULFID 3 9 D-TRYPTOPHAN.
 PT MOD RES 5 5 AMIDATION.
 PT MOD RES 9 9 AMIDATION.
 SQ SEQUENCE 9 AA; 1091 MW; 8D38676323676EBA CRC64;
 Query Match 61.3%; Score 19; DB 1; Length 9;
 Best Local Similarity 50.0%; Pred. No. 1.3e+05;
 Matches 2; Conservative 0; Mismatches +2; Indels 0; Gaps 0;
 Qy 1 WXXW 4
 |
 Db 5 WKWP 8

RESULT 3
 LITR PHYRO STANDARD; PRT; 9 AA.
 AC P08976;
 ID LITR PHYRO STANDARD; PRT; 9 AA.
 DT 01-NOV-1988 (Rel. 09, Created)
 DT 01-FEB-1994 (Rel. 28, Last sequence update)
 DT 15-SEP-2003 (Rel. 42, Last annotation update)
 DE Rhode-litorin.
 OS Phyllomedusa rohdei (Rohde's leaf frog).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Amphibia; Batrachia; Anura; Neobatrachia; Buronoidea; Hyliidae;
 OC Phyllomedusinae; Phyllomedusa.
 OX NCBI_TaxID=8394;
 RN
 RP SEQUENCE:
 RC TISSUE=Skin secretion;
 RX MEDLINE=83127560; PubMed=3838283;
 RA Barra D., Brspaner G.P., Simmaco M., Bossa F., Melchiorri B.,
 RA Erspaner V.
 RT "Rohde-litorin: a new peptide from the skin of *Phyllomedusa rohdei*."
 RL FEBS Lett. 182:53-56 (1985).
 CC SUBCELLULAR LOCATION: Secreted.
 CC TISSUE SPECIFICITY: Skin.
 CC SIMILARITY: BELONGS TO THE BOMBESIN/NEUROMEDIN B/RANATENSIN FAMILY.
 DR PIR; S07241; S07241.
 DR InterPro; IPR000874; Bombesin.
 DR Pfam; PF02044; Bombesin.
 DR PROSITE; PS00257; BOMBESIN; 1.
 DR Pyrrolidone carboxylic acid. PYRROLIDONE CARBOXYLIC ACID.
 PT MOD RES 1 1 AMIDATION.
 PT MOD RES 9 9 AMIDATION.
 SQ SEQUENCE 9 AA; 1090 MW; 4ECCC1E861ADG377 CRC64;

Query Match 45.2%; Score 14; DB 1; Length 9;
 Best Local Similarity 33.3%; Pred. No. 1.3e+05;
 Matches 2; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

DE Gonadoliberin I (Gonadotropin-releasing hormone I) (GnRH-I) (LH-RH I) (Lutiberin I).
 DB Alligator mississippiensis (American alligator).
 OS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Archosauria; Crocodyliae; Alligatoridae; Alligator.
 OC NCB_ TaxID=8496;
 RN
 RP SEQUENCE:
 RC TISSUE=brain; TISSUE=brain; PubMed=1882082;
 RX MEDLINE=91352338; Lovejoy D.A., Fischer W.H., Parker D.B., McRory J.E., Park M., Lance V., Swanson P., River J.E., Sherwood N.M.; "Primary structure of two forms of gonadotropin-releasing hormone from brains of the American alligator (Alligator mississippiensis)." Regul. Pept. 33:105-116 (1991).
 CC FUNCTION: Stimulates the secretion of gonadotropins.
 CC SUBCELLULAR LOCATION: Secreted.
 CC SIMILARITY: Belongs to the GNRH family.
 DR PIR; A60066; RHAQ1; InterPro; IPR002012; GnRH; DR PIR; PP00446; GNRH; 1.
 DR PROSITE; PS00473; GNRH; 1.
 KW Hormone; Amidation; Hypothalamus; Pyrrolidone carboxylic acid.
 PT AMIDATION.
 ID MOD RES 1 1 FT
 SQ SEQUENCE 10 AA; 1172 MW; 284B23D7286B45A3 CRC64;
 Query Match 45.2%; Score 14; DB 1; Length 10;
 Best Local Similarity 33.3%; Pred. No. 2.4e+03;
 Matches 1; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
 Qy 4 WXF 6
 Db 3 WSY 5

RESULT 5
 GON3_ONCKB
 ID GON3_ONCKB
 AC P20367; P81751;
 DT 01-FEB-1991 (Rel. 17, Created)
 DT 01-FEB-1991 (Rel. 17, Last sequence update)
 DT 28-FEB-2003 (Rel. 41, Last annotation update)
 DE Gonadoliberin III (Gonadotropin-releasing hormone III) (GnRH-III) (LH-RH III) (Lutiberin III).
 DE GN
 OS Oncorhynchus keta (Chum salmon), and
 OS Clupea pallasi (Pacific herring).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostei;
 OC Actinopterygii; Neopterygii; Teleostei; Buteleosteii;
 OC Protacanthopterygii; Salmoniformes; Salmonidae; Oncorhynchus.
 NCB_ TaxID=8018; 30724;
 RN
 RP SEQUENCE, AND FUNCTION:
 RC SPECIES=O. keta; TISSUE=Brain, and Pituitary;
 RX MEDLINE=3195140; PubMed=6341999; Sherwood N., Eiden L., Brownstein M., Spiess J., Rivier J., Vale W.; "Characterization of a teleost gonadotropin-releasing hormone." Proc. Natl. Acad. Sci. U.S.A. 80:2794-2798 (1983).
 [2]
 RP SEQUENCE, AND FUNCTION:
 RC SPECIES=O. keta; TISSUE=Brain, and Pituitary;
 RX MEDLINE=30114351; PubMed=10650929; Carolisfeld J., Powell J.F.F., Park M., Fischer W.H., Craig A.G., Chang J.P., River J.E., Sherwood N.M.; "Primary structure and function of three gonadotropin-releasing hormones, including a novel form, from an ancient teleost, herring." Endocrinology 141:545-512 (2000).
 CC FUNCTION: Stimulates the secretion of gonadotropins; it stimulates the secretion of both luteinizing and follicle-stimulating hormones.
 CC SIMILARITY: Belongs to the GNRH family.

RESULT 4
 GON1_ALLMI
 ID GON1_ALLMI STANDARD;
 AC P37041; P20407;
 DT 01-FEB-1991 (Rel. 17, Created)
 DT 01-FEB-1991 (Rel. 17, Last sequence update)
 DT 28-FEB-2003 (Rel. 41, Last annotation update)

DR PIR; A21114; A21114.
 DR InterPro; IPR002012; GnRH.
 DR Pfam; PF000446; GnRH; 1.
 DR PROSITE; PS000473; GnRH; 1.
 DR Hormone; Amidation; Hypothalamus; Pyrrolidone carboxylic acid.
 DR MOD_RES 1 1 PYRROLIDONE CARBOXYLIC ACID.
 FT MOD_RES 10 10 AMIDATION.
 FT SEQUENCE 10 AA; 1230 MW; 284B32337B6B45A3 CRC64;

Query Match 45.2%; Score 14; DB 1; Length 10;
 Best Local Similarity 33.3%; Pred. No. 2.4e+03;
 Matches 1; Conservative 1; Miematches 1; Indels 0; Gaps 0;

Qy 4 WXP 6
 Db 3 WSY 5

RESULT 6
 RANC_RANPI STANDARD; PRT; 11 AA.
 AC P08951;
 DT 01-NOV-1988 (Rel. 09, Created)
 DT 01-NOV-1988 (Rel. 09, Last sequence update)
 DT 15-SEP-2003 (Rel. 42, Last annotation update)
 DB Rana censin-C.
 OS Rana pipiens (Northern leopard frog).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Amphibia; Batrachia; Anura; Neobatrachia; Ranidae; Rana;
 OX NCBI_TaxID=8404;
 RN [1] —
 RP SEQUENCE.
 RC TISSUE=Skin secretion;
 RX MEDLINE=84131098; PubMed=6141890;
 RA Nakajima T.;
 RL Unpublished results, cited by:
 RL Erspaner V.; Erspaner G.F.; Mazzanti G.; Endean R.;
 RL Comp. Biochem. Physiol. 77C:99-108(1984).
 RL Comp. Biochem. Physiol. 77C:99-108(1984).
 CC -!- TISSUE SPECIFICITY: Skin.
 CC -!- SIMILARITY: BELONGS TO THE BOMBESIN/NEUROMEDIN B/RANATENSIN FAMILY.
 DR InterPro; IPR000874; Bombesin.
 DR Pfam; PF002044; Bombesin; 1.
 DR PROSITE; PS00257; BOMBESIN; 1.
 DR Amphibian defense peptide; Bombesin family; Amidation.
 DR MOD_RES 11 11 AMIDATION.
 DR SEQUENCE 11 AA; 1304 MW; D6C985A6iADC366 CRC64;

Query Match 45.2%; Score 14; DB 1; Length 11;
 Best Local Similarity 33.3%; Pred. No. 2.6e+03;
 Matches 2; Conservative 0; Miematches 4; Indels 0; Gaps 0;

Qy 1 WXXWXP 6
 Db 5 WATGHF 10

RESULT 7
 RT34_BOVIN STANDARD; PRT; 8 AA.
 ID RT34_BOVIN
 AC P82929;
 DT 28-FEB-2003 (Rel. 41, Created)
 DT 28-FEB-2003 (Rel. 41, Last sequence update)
 DB Mitochondrial 28S ribosomal protein S34 (S34mt) (Fragment).
 GN MRPS34.
 OS Bos taurus (Bovine).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
 OC Bovidae; Bovinae; Bos.
 OX NCBI_TaxID=9913;
 RN [1] —

RP SEQUENCE;
 TISSUE=Liver;
 RC MEDLINE=21279436; PubMed=111279123;
 RX RA Koc E.C.; Burkhardt W.; Blackburn K.; Moseley A.; Spremulli L.L.;
 RT "The small subunit of the mammalian mitochondrial ribosome;
 identification of the full complement of ribosomal proteins present."
 RL J. Biol. Chem. 276:19363-19374(2001).
 CC -!- SUBUNIT: Component of the mitochondrial ribosome small subunit
 (28S) which comprises a 12S rRNA and about 30 distinct proteins.
 CC -!- SUBCELLULAR LOCATION: Mitochondrion.
 CC Ribosomal protein; Mitochondrion.
 FT NON_TER 1 1
 FT NON_TER 8 8
 SQ SEQUENCE 8 AA; 935 MW; 9639D1A72058637D CRC64;

Query Match 41.9%; Score 13; DB 1; Length 8;
 Best Local Similarity 33.3%; Pred. No. 1.3e+05;
 Matches 2; Conservative 0; Miematches 4; Indels 0; Gaps 0;

Qy 1 WXXWXP 6
 Db 2 WGILTF 7

RESULT 8
 LITO_LITAU STANDARD; PRT; 9 AA.
 ID LITO_LITAU
 AC P08945;
 DT 01-NOV-1988 (Rel. 09, Created)
 DT 01-FEB-1994 (Rel. 28, Last sequence update)
 DT 15-SEP-2003 (Rel. 42, Last annotation update)
 DB Litoria.
 OS Litoria aurea (Green and golden bell frog).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Amphibia; Batrachia; Anura; Neobatrachia; Bufonoidea; Hyliidae;
 OC Pelodryadinae; Litoria.
 OX NCBI_TaxID=8371;
 RN [1] —
 RP SEQUENCE.
 RC TISSUE=Skin secretion;
 RX MEDLINE=75187011; PubMed=1140241;
 RA Anastasi A.; Erspaner V.; Endean R.;
 RL "Aminoacid composition and sequence of litorin, a bombesin-like nonapeptide from the skin of the Australian leptodactylid frog Litoria aurea.",
 RL Experientia 31:510-511(1975).
 RN [2] —
 RP SEQUENCE (METHYLATED VARIANT).
 RC TISSUE=Skin secretion;
 RX MEDLINE=78003546; PubMed=908397;
 RA Anastasi A.; Montecuccchi P.C.; Angelucci F.; Erspaner V.; Endean R.;
 RT "Glu(Ome)3-litorin, the second bombesin-like peptide occurring in methanol extracts of the skin of the Australian frog Litoria aurea.",
 RL Experientia 33:1289-1289(1977).
 CC -!- SUBCELLULAR LOCATION: Secreted.
 CC -!- TISSUE SPECIFICITY: Skin.
 CC -!- SIMILARITY: BELONGS TO THE BOMBESIN/NEUROMEDIN B/RANATENSIN FAMILY.
 CC PIR; S07204; S07204;
 DR InterPro; IPR000874; Bombesin.
 DR Pfam; PF02044; Bombesin; 1.
 DR PROSITE; PS00257; BOMBESIN; 1.
 DR Amphibian defense Peptide; Bombesin family; Amidation; Methylation;
 KW Pyrrolidone carboxylic acid.
 KW Pyrrolidone carboxylic acid.
 FT MOD_RES 1 1 PYRROLIDONE CARBOXYLIC ACID.
 FT MOD_RES 2 2 METHYLATION (PARTIAL).
 FT MOD_RES 9 9 AMIDATION.
 SQ SEQUENCE 9 AA; 1103 MW; D7CC1EB62CDC366 CRC64;

Query Match 41.9%; Score 13; DB 1; Length 9;
 Best Local Similarity 33.3%; Pred. No. 1.3e+05;
 Matches 2; Conservative 0; Miematches 4; Indels 0; Gaps 0;

Qy	1 WXXWXP 6	CC -1- SIMILARITY: BELONGS TO THE UROTENSIN 2 FAMILY.
Db	3 WAVGHP 8	DR PIR; JS0423; JS0123.
		DR InterPro; IPR01983; Urotnsin_II.
		DR Pfam; PF02083; Urotnsin_II; 1.
		DR PROSITE; PS00984; UROTENSIN_II; 1.
		KW Hormone.
		FT DISULFID 6 11
		SQ SEQUENCE 12 AA; 1336 MW; 969C76DBB879CEBA CRC64;
RESULT 9		
HTF-TBATT	HTF TABAT	STANDARD; PRT; 10 AA.
ID	AC P14596;	Query Match 41.9%; Score 13; DB 1; Length 12;
DT 01-JAN-1990 (Rel. 13, Created)	DT 28 Last sequence update)	Best Local Similarity 33.3%; Pred. No. 4e+03;
DT 01-FEB-1994 (Rel. 28, Last annotation update)	DT 41 Last annotation update)	Matches 1; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
DB Hyperrehalosaeic Factor (HOTH) (Dipteran corpora cardiaca factor III) (DCC II)		
OS Tabanus atratus (Horse fly).	Qy 4 WXF 6	
OC Burkarya; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;	Db 8 WKY 10	
OC Neoptera; Endopterygota; Diptera; Brachycera; Tabanidae;		
OC Tabanus.		
NCBI_TaxID=7207;		
RN [1]		
RP	SEQUENCE.	RESULT 11
RC TISSUE=Corpora cardiaca;	UR2B_CATCO STANDARD; PRT; 12 AA.	
RX MEDLINE=90046758; PubMed=2813385;	ID UR2B_CATCO	
RA Jaffe H., Raina A.K., Riley C.T., Fraser B.A., Nachman R.J.,	AC P04559;	
RA Vogel V.W., Zhang Y.-S., Hayes D.K.,	DT 13-AUG-1987 (Rel. 05, Created)	
RT "Primary structure of two neuropeptides with adipokinetic and	DT 13-AUG-1987 (Rel. 05, Last sequence update)	
hypothalaeamic activity isolated from the corpora cardiaca of horse	DT 16-OCT-2001 (Rel. 40, Last annotation update)	
flies (Diptera).";	DE Urotnsin_IIB (U-IB) (UIIB).	
RT Proc. Natl. Acad. Sci. U.S.A. 86:8161-8164 (1989).	RT Catostomus commersoni (White sucker).	
RL -1- FUNCTION: HYPERTEHALOSAEMIC FACTORS ARE NEUROPEPTIDES THAT	OS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Butelostomni;	
CC ELEVATE THE LEVEL OF TREHALOSE IN THE HEMOLYMPH (TREHALOSE IS	OC Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes;	
CC THE MAJOR CARBOHYDRATE IN THE HEMOLYMPH OF INSECTS).	OC Catostomidae; Catostomus.	
CC -1- SIMILARITY: BELONGS TO THE AKH / RPCH / RPCH FAMILY.	NCBI_TaxID=7971;	
DR PIR; B33995; B33995.	RN [1]	
DR InterPro; IPR002047; AKH.	SEQUENCE.	
DR PROSITE; PS000255; AKH; 1.	RX MEDLINE=6138758;	
KW Neuropeptide; Amidation; Pyrrolidone carboxylic acid.	RA McMaster D., Lederis K.;	
FT MOD-RES 1 1 PYRROLIDONE CARBOXYLIC ACID.	RT "Isolation and amino acid sequence of two urotnsin II peptides from	
FT MOD-RES 10 10 AMIDATION.	RT Catostomus commersoni urophyses.";	
SQ SEQUENCE 10 AA; 1169 MW;	RL Peptides 4:367-373 (1983).	
Qy 4 WXF 6	CC I- FUNCTION: UROTNIN IS FOUND IN THE TELEOST CAUDAL NEUROSECRETORY	
Db 8 WKY 10	CC SYSTEM. IT HAS A SUGGESTED ROLE IN OSMOREGULATION AND AS A	
	CC CORTICOTROPIN-RELEASING FACTOR.	
	CC -1- SIMILARITY: BELONGS TO THE UROTENSIN 2 FAMILY.	
	DR PIR; JS0423; JS0424.	
	DR InterPro; IPR01433; Urotnsin_II.	
	DR Pfam; PF02083; Urotnsin_II; 1.	
	DR PROSITE; PS00984; UROTENSIN_II; 1.	
	KW Hormone.	
	FT DISULFID 6 11	
	SQ SEQUENCE 12 AA; 1437 MW; 73961BDBB879CEBB CRC64;	
RESULT 10		
UR2A_CATCO	STANDARD; PRT; 12 AA.	Query Match 41.9%; Score 13; DB 1; Length 12;
ID UR2A_CATCO	AC P04551;	Best Local Similarity 33.3%; Pred. No. 4e+03; 1; Mismatches 1; Indels 0; Gaps 0;
AC P04558;	DT 13-AUG-1987 (Rel. 05, Created)	
DT 13-AUG-1987 (Rel. 05, Last sequence update)	DT 13-AUG-1987 (Rel. 05, Last sequence update)	
DT 16-OCT-2001 (Rel. 40, Last annotation update)	DT 16-OCT-2001 (Rel. 40, Last annotation update)	
DE Urotnsin_IIA (U-IIA) (UIIA).	DE Urotnsin_IIB (U-IB) (UIIB).	
OS Catostomus commersoni (White sucker).	OS Cyprinus carpio (Common carp).	
OC Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes;	OS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Butelostomni;	
OC Catostomidae; Catostomus.	OC Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes;	
NCBI_TaxID=1971;	OC Cyprinidae; Cyprinus.	
RN [1]	NCBI_TaxID=7962;	
RP	SEQUENCE.	
RX MEDLINE=84041959; PubMed=6138758;		
RA McMaster D., Lederis K.;		
RT "Isolation and amino acid sequence of two urotnsin II peptides from		
RT Catostomus commersoni urophyses.";		
RL Peptides 4:367-373 (1983).		
CC -1- FUNCTION: UROTENSIN IS FOUND IN THE TELEOST CAUDAL NEUROSECRETORY		
CC SYSTEM. IT HAS A SUGGESTED ROLE IN OSMOREGULATION AND AS A		
CC CORTICOTROPIN-RELEASING FACTOR.		

RP SEQUENCE.
 RA Munekata E., Ohtaki T., Ichikawa T., McMaster D., Lederis K.;
 RL Rich D.H., Gross E. (eds.);
 RL Proceedings of the 7th American peptide symposium, pp. 69-72;
 RL Pierce Chemical Co., Rockford IL. (1981).
 -: FUNCTION: UROTENSIN IS FOUND IN THE TELEOST CAUDAL NEUROSECRETORY
 SYSTEM. IT HAS A SUGGESTED ROLE IN OSMOREGULATION AND AS A
 CORTICOTROPIN-RELEASING FACTOR.
 CC -: SIMILARITY: BELONGS TO THE UROTENSIN 2 FAMILY.
 DR InterPro; IPR001483; Urotensin_II.
 DR Pfam; PF0083; Urotensin_II; 1.
 DR PROSITE; PS00984; UROTENSIN_II; 1.
 KW Hormone.
 PT DISULFID 6 11
 PT VARIANT 2 2
 SQ SEQUENCE 12 AA; 1407 MW; 73960A9FB879CEBB CRC64;
 Query Match Score 13; DB 1; Length 12;
 Best Local Similarity 41.9%; Pred. No. 4e+03;
 Matches 1; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
 Qy 4 WXP 6
 Db 8 WKY 10

RESULT 13
 UR2_GILMI STANDARD; PRT; 12 AA.
 AC P01147;
 DT 21-JUL-19986 (Rel. 01, Created)
 DT 21-JUL-19986 (Rel. 01, Last sequence update)
 DT 16-OCT-2001 (Rel. 40, Last annotation update)
 DE Urotensin II (U-II) (U-II).
 OS Gillichthys mirabilis (Long-jawed mudsucker).
 OC Gillichthys; Metaoia; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
 OC Acanthomorpha; Acanthopterygii; Perciformes; Gobioidei;
 OC Gobiidae; Gillichthys.
 OX NCBI_TaxID:8222;
 RN [1]
 RP SEQUENCE.
 RX MEDLINE=B1054904; PubMed=6107911;
 RA Pearson D., Shively J.E., Clark B.R., Geschwind I.I., Barkley M.,
 RA Nishioka R., Bern H.A.;
 RT "Urotensin II: a somatosatin-like peptide in the caudal
 neurosecretory system of fishes";
 Proc. Natl. Acad. Sci. U.S.A. 77:5021-5124 (1980).
 RL -: FUNCTION: UROTENSIN IS FOUND IN THE TELEOST CAUDAL NEUROSECRETORY
 SYSTEM. IT HAS A SUGGESTED ROLE IN OSMOREGULATION AND AS A
 CORTICOTROPIN-RELEASING FACTOR.
 CC -: SIMILARITY: BELONGS TO THE UROTENSIN 2 FAMILY.
 DR PIR; A01409; UOCM2.
 DR InterPro; IPR001483; Urotensin_II.
 DR Pfam; PF002083; Urotensin_II; 1.
 DR PROSITE; PS00984; UROTENSIN_II; 1.
 KW Hormone.
 PT DISULFID 6 11
 SQ SEQUENCE 12 AA; 1364 MW; 968BF8982679CEBA CRC64;
 Query Match Score 13; DB 1; Length 12;
 Best Local Similarity 41.9%; Pred. No. 4e+03;
 Matches 1; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

AC P81022; 1
 DT 01-NOV-1997 (Rel. 35, Created)
 DT 01-NOV-1997 (Rel. 35, Last sequence update)
 DT 16-OCT-2001 (Rel. 40, Last annotation update)
 OS Polyodon spathula (North American paddlefish)
 OC Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Actinopterygii; Chondrostei; Acipenseriformes; Polyodontidae;
 OC Polyodon.
 OX NCBI_TaxID:913;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=spinal cord;
 RX MEDLINE=96051494; PubMed=8536944;
 RA Waugh D., Youson J., Mims S.D., Sower S., Conlon J.M.;
 RT "Urotensin II from the river lamprey (*Lampetra fluviatilis*), the sea
 lamprey (*Petromyzon marinus*), and the paddlefish (*Polyodon
 spathula*).";
 RL Gen. Comp. Endocrinol. 99:323-332 (1995).
 -: FUNCTION: HAS A SUGGESTED ROLE IN OSMOREGULATION AND AS A
 CORTICOTROPOIN-RELEASING FACTOR. PROBABLY INVOLVED IN SMOOTH
 CC MUSCLE STIMULATION
 CC -1- SIMILARITY: BELONGS TO THE UROTENSIN 2 FAMILY.
 DR InterPro; IPR001483; Urotensin_II.
 DR Pfam; PF02083; Urotensin_II; 1.
 DR PROSITE; PS00984; UROTENSIN_II; 1.
 KW Hormone.
 PT DISULFID 6 11
 SQ SEQUENCE 12 AA; 1410 MW; 7551E9DBB879CEBB CRC64;
 Query Match Score 13; DB 1; Length 12;
 Best Local Similarity 33.3%; Pred. No. 4e+03;
 Matches 1; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
 Qy 4 WXP 6
 Db 8 WKY 10
 RESULT 15
 UR2_SCYCA STANDARD; PRT; 12 AA.
 ID UR2_SCYCA
 AC P35490;
 DT 01-JUN-1994 (Rel. 29, Created)
 DT 01-JUN-1994 (Rel. 29, Last sequence update)
 DE Urotensin II (U-II) (U-II).
 OS Scyliorhinus canicula (Spotted dogfish) (Spotted catshark).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Chondrichthyes;
 OC Elasmobranchii; Galeomorphii; Galeoidea; Carcharhiniformes;
 OC Scyliorhinidae; Scyliorhinus.
 OX NCBI_TaxID:7830;
 RN [1]
 RP SEQUENCE.
 RX MEDLINE=9231921; PubMed=1620290;
 RA Conlon J.M., O'Harte F., Smith D.D., Balment R.J., Hazon N.;
 RT "Purification and characterization of urotensin II and parvalbumin
 from an elasmobranch fish, *Scyliorhinus canicula* (common dogfish).";
 RL Neuroendocrinology 55:230-235 (1992).
 -: FUNCTION: HAS A SUGGESTED ROLE IN OSMOREGULATION AND AS A
 CORTICOTROPOIN-RELEASING FACTOR. PROBABLY INVOLVED IN SMOOTH
 CC MUSCLE STIMULATION.
 CC -1- SIMILARITY: BPLONGS TO THE UROTENSIN 2 FAMILY.
 DR InterPro; IPR001483; Urotensin_II.
 DR Pfam; PF02083; Urotensin_II; 1.
 DR PROSITE; PS00984; UROTENSIN_II; 1.
 KW Hormone.
 PT DISULFID 6 11
 SQ SEQUENCE 12 AA; 1526 MW; 804729F9D579CEBA CRC64;
 Query Match Score 13; DB 1; Length 12;
 Best Local Similarity 33.3%; Pred. No. 4e+03;

RESULT 14
 UR2_POLSP STANDARD; PRT; 12 AA.
 ID UR2_POLSP

	Matches	1; Conservative	1; Mismatches	1; Indels	0; Gaps	0;
Qy	4	WKF 6				
		8	WKY 10			
Db						

Search completed: December 3, 2003, 11:51:51
Job time : 7.33333 secs

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4 protein - protein search, using sw model

run on: December 3, 2003, 11:48:35 ; Search time 11 Seconds
(without alignments)
52.456 Million cell. updates/sec

title: US-09-912-414-9

perfect score: 31

sequence: 1 WXXWXP 6

scoring table: BIOSM2

cytochrome-c oxida
cytochrome-c oxida
cytochrome-c oxida
phospholipase A2 (proteochondroitin c
phenotypic variati
glucan 1,3-beta-gi
leukocyte elastase
litorin - Rohde's
gonadoliberin - pi
gonadoliberin - sh
gonadoliberin - i -
gonadoliberin - ch
spermadhesin AQN-3
Ig heavy chain DJ
litorin 2-Cl- 5- An

searched: 283308 seqs, 96168682 residues

RESULT 1
A43848
Minimum DB seq length: 0

C:Species: *Staphylococcus aureus*
C:Date: 10-Mar-1993 #sequence_revision 18-Nov-1994 #text_change 24-Feb-1995
C:Comments: *Staphylococcus aureus* 10-Mar-1993
C:Comments: *Staphylococcus aureus* 18-Nov-1994
C:Comments: *Staphylococcus aureus* 24-Feb-1995

Listing first 45 summaries

atabase : PIR_76:*

pir2 := *pir2;

4: pir4: *
- 4: pir4: *

SUMMARIES

result No.	Score	Query Match	Length	DB ID	Description
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1	21	67.7	9	2	A43348	cell surface adhes
2	2	64.5	10	2	F4933	T-cell receptor ga
3	20	64.5	12	2	PH1124	Ig heavy chain DJ
4	20	64.5	12	2	PH1108	Ig heavy chain DJ
5	20	64.5	13	2	S61198	T-cell-specific tr
6	20	64.5	14	2	PH1122	Ig heavy chain DJ
7	17	54.8	13	2	S2372	T-cell receptor al
8	17	54.8	13	2	B25148	Ig kappa chain J r
9	17	54.8	13	2	B26106	Ig kappa chain J r
10	17	54.8	13	2	A47530	Ig kappa chain J r
11	16	51.6	8	2	T13818	cytochrome oxidase
12	16	51.6	10	2	T17054	cytochrome-c oxida
13	16	51.6	10	2	T1376	cytochrome-c oxida
14	16	51.6	10	2	T11957	cytochrome-c oxida
15	16	51.6	10	2	T1203	cytochrome-c oxida
16	16	51.6	10	2	T14019	cytochrome-c oxida
17	16	51.6	10	2	T11060	cytochrome-c oxida
18	16	51.6	10	2	T17053	cytochrome-c oxida
19	16	51.6	10	2	T12225	cytochrome-c oxida
20	16	51.6	10	2	T14043	cytochrome-c oxida
21	16	51.6	10	2	T14054	cytochrome-c oxida
22	16	51.6	10	2	T17066	cytochrome-c oxida
23	16	51.6	10	2	T17069	cytochrome-c oxida
24	16	51.6	10	2	T1208	cytochrome-c oxida
25	16	51.6	10	2	T17072	cytochrome-c oxida
26	16	51.6	10	2	T12312	cytochrome-c oxida
27	16	51.6	10	2	T12329	cytochrome-c oxida
28	16	51.6	10	2	T12316	cytochrome-c oxida
29	16	51.6	10	2	T12211	cytochrome-c oxida

RESULT 2
F49033 T-cell receptor gamma chain V-D-J region - human (fragment)
C;Species: *Homo sapiens* (man)
C;Date: 19-Dec-1993 #sequence_revision 17-Mar-2000 #text_change 17-Mar-2000
C;Accession: F49033
R;Morita, C.T.; Verma, S.; Aparicio, P.; Martinez, C.; Spits, H.; Brenner, M.B.
B;J. Immunol. 21, 2999-3007, 1991
A;Title: Functionally distinct subsets of human gamma/delta T cells.
A;Reference number: A49033: MUID:922083926: PMID:1684157

```

Accession: JQ553333
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-10 <NOR>
A;Cross-references: GB:S72605; NID:9240700; PIDN:AA20632_1; PID:9240701
A;Note: sequence extracted from NCBI backbone (NCBIN:72605, NCBIIP:72606)
C;Keywords: T-cell receptor
Query Match 64.5%; Score 20; DB 2; Length 10;
Best Local Similarity 50.0%; Pred. No. 5.7e+02;
Matches 2; Conservative 0; Mismatches 2; Indels 0; Gaps 0
Qy 1 WXXW 4
Db 4 WDDW 7

```

RESULT 3

PH1324
 19 heavy chain DJ region (clone C510-100) - human (fragment)
 C;Species: Homo sapiens (man)
 C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 07-May-1999
 R;Wasserman, R.; Galili, N.; Ito, Y.; Reichard, B.A.; Shane, S.; Rovera, G.
 J. Exp. Med. 176, 1577-1581, 1992
 A;Title: predominance of fetal type DJH joining in young children with B precursor lymph
 A;Reference number: PH1302; MUID:93094761; PMID:1460419
 A;Accession: PH1324
 A;Molecule type: DNA
 A;Residues: 1-12 <WAS>
 C;Keywords: heterotetramer; immunoglobulin

Query Match 64.5%; Score 20; DB 2; Length 12;
 Best Local Similarity 50.0%; Pred. No. 6.6e+02;
 Matches 2; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 Qy 1 WXXW 4
 Db 5 WYYW 8

RESULT 4

PH1308
 19 heavy chain DJ region (clone C731-94) - human (fragment)
 C;Species: Homo sapiens (man)
 C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 07-May-1999
 R;Wasserman, R.; Galili, N.; Ito, Y.; Reichard, B.A.; Shane, S.; Rovera, G.
 J. Exp. Med. 176, 1577-1581, 1992
 A;Title: predominance of fetal type DJH joining in young children with B precursor lymph
 A;Reference number: PH1302; MUID:93094761; PMID:1460419
 A;Accession: PH1308
 A;Molecule type: DNA
 A;Residues: 1-12 <WAS>
 C;Keywords: heterotetramer; immunoglobulin

Query Match 64.5%; Score 20; DB 2; Length 12;
 Best Local Similarity 50.0%; Pred. No. 6.6e+02;
 Matches 2; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 Qy 1 WXXW 4
 Db 7 WQW 10

RESULT 5

S61798
 T-cell-specific transcription factor 1 splice form G - human (fragment)
 N;Alternate names: transcription factor TCF-1G
 C;Species: Homo sapiens (man)
 C;Date: 19-Mar-1997 #sequence_revision 18-Jul-1997 #text_change 24-Jul-1998
 C;Accession: S61798; S61850
 R;Mayer, K.; Wolff, E.; Clevers, H.; Ballhausen, W.G.
 Biochim. Biophys. Acta 1263, 169-172, 1995
 A;Title: The human high mobility group (HMG)-box transcription factor TCF-1: novel isoform
 A;Accession: S61798
 A;Molecule type: mRNA
 A;Residues: 1-13 <MAY>
 A;Cross-references: EMBL:247364
 A;Note: DNA was also sequenced
 C;Keywords: alternative splicing; DNA binding; transcription factor

Query Match 64.5%; Score 20; DB 2; Length 13;
 Best Local Similarity 50.0%; Pred. No. 7e+02;
 Matches 2; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 Qy 1 WXXW 4
 Db 6 WDGW 9

Query Match 54.8%; Score 17; DB 2; Length 13;
 Best Local Similarity 66.7%; Pred. No. 2.2e+03;
 Matches 2; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 Qy 4 WXP 6

RESULT 6

PH1322
 Ig heavy chain DJ region (clone C344-99) - human (fragment)
 C;Species: Homo sapiens (man)
 C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 07-May-1999
 C;Accession: PH1322
 R;Wasserman, R.; Galili, N.; Ito, Y.; Reichard, B.A.; Shane, S.; Rovera, G.
 J. Exp. Med. 176, 1577-1581, 1992
 A;Title: predominance of fetal type DJH joining in young children with B precursor lymph
 A;Reference number: PH1302; MUID:93094761; PMID:1460419
 A;Accession: PH1322
 A;Molecule type: DNA
 A;Residues: 1-14 <WAS>
 C;Keywords: heterotetramer; immunoglobulin

Query Match 64.5%; Score 20; DB 2; Length 14;
 Best Local Similarity 50.0%; Pred. No. 7.4e+02;
 Matches 2; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 Qy 1 WXXW 4
 Db 6 WDYW 9

Query Match 54.8%; Score 17; DB 2; Length 13;
 Best Local Similarity 66.7%; Pred. No. 2.2e+03;
 Matches 2; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 Qy 4 WXP 6

Db 1 |
Db 1 WAF 3

RESULT 9
B26406
Ig kappa chain J region - mouse
C;Species: *Mus musculus* (house mouse)
C;Date: 30-Jun-1989 #sequence_revision 30-Jun-1989 #text_change 16-Aug-1996

Qy 4 WXF 6
Db 6 WFF 8

RESULT 10
B26406
Ig kappa chain J region J1 - southeastern Australian rat
C;Species: *Rattus sordidus* villosovittatus (southeastern Australian rat)
C;Accession: A47630
C;Cross-references: GB:MI5519
C;Keywords: heterotetramer; immunoglobulin
Query Match Score 17; DB 2; Length 13;
Best Local Similarity 66.7%; Pred. No. 2.2e+03;
Matches 2; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 4 WXF 6
Db 1 WFF 3

RESULT 11
T13818
cytochrome oxidase subunit I - Atlantic halibut mitochondrion (fragment)
C;Species: mitochondrion *Myxine glutinosa* (Atlantic halibut)
C;Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 21-Jul-2000

Qy 4 WXF 6
Db 6 WFF 8

RESULT 12
T1054
cytochrome-c oxidase (EC 1.9.3.1) chain I - *Basiliscus plumifrons* (fragment)
C;Species: mitochondrion *Basiliscus plumifrons*
C;Accession: T17054
R;Nacey, J.R.; Larson, A.; Ananjeva, N.B.; Papenfuss, T.J.
J. Mol. Evol. 44, 660-674, 1997
A;Title: Evolutionary shifts in three major structural features of the mitochondrial g
A;Reference number: Z18674; PMID:97345309; PMID:9165559
A;Accession: T17054
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-10 <MAC>
A;Cross-references: EMBL:U82680; NID:93603104; PID:93603107; PIDN: AAC62269.1
A;Genome: mitochondrion
A;Note: COI
C;Keywords: mitochondrion; oxidoreductase
C;Accession: T13976
R;Nacey, J.R.; Larson, A.; Ananjeva, N.B.; Fang, Z.; Papenfuss, T.J.
Mol. Biol. Evol. 14, 91-104, 1997
A;Title: Two novel gene orders and the role of light-strand replication in rearrangeme
A;Reference number: Z17789; PMID:97153826; PMID:9000757
A;Accession: T13976
A;Molecule type: DNA
A;Residues: 1-10 <MAC>
A;Cross-references: EMBL:U71332; NID:91753236; PID:91753239; PIDN: AAB48274.1
A;Genome: mitochondrion
A;Note: COI
C;Keywords: mitochondrion; oxidoreductase
C;Accession: T13818
R;Delarbre, C.; Barriel, V.; Tillier, S.; Janvier, P.; Gachelin, G.
Mol. Biol. Evol. 14, 807-813, 1997
A;Title: The main features of the mitochondrial DNA between the ND1 and the COI
A;Reference number: Z17775; PMID:97398704; PMID:9254918
A;Accession: T13818
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-8
A;Cross-references: EMBL:Y09527; NID:92340019; PIDN:CAA70718.1; PID:92340022
C;Genetics:
A;Genome: mitochondrion
A;Note: COI

RESULT 13
T13976
cytochrome-c oxidase (EC 1.9.3.1) chain I - *Cnemidophorus tigris* (fragment)
C;Species: mitochondrion *Cnemidophorus tigris*
C;Accession: T13976
R;Nacey, J.R.; Larson, A.; Ananjeva, N.B.; Fang, Z.; Papenfuss, T.J.
Mol. Biol. Evol. 14, 91-104, 1997
A;Title: Two novel gene orders and the role of light-strand replication in rearrangeme
A;Reference number: Z17789; PMID:97153826; PMID:9000757
A;Accession: T13976
A;Molecule type: DNA
A;Residues: 1-10 <MAC>
A;Cross-references: EMBL:U71332; NID:91753236; PID:91753239; PIDN: AAB48274.1
A;Genome: mitochondrion
A;Note: COI
C;Keywords: mitochondrion; oxidoreductase
C;Accession: T17057
R;Crotaphytus collaris (EC 1.9.3.1) chain I - *Crotaphytus collaris* (fragment)
C;Species: mitochondrion *Crotaphytus collaris*

C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 22-Oct-1999

C;Accession: T17057 R;Mace, J.R.; Larson, A.; Ananjeva, N.B.; Papenfuss, T.J.

J. Mol. Evol. 44, 660-674, 1997

A;Title: Evolutionary shifts in three major structural features of the mitochondrial gene;Reference number: Z18674; MUID:97315309; PMID:9169559

A;Accession: T11057 A;Status: preliminary; translated from GB/EMBL/DDBJ

A;Molecule type: DNA A;Residues: 1-10 <MAC>

A;Cross-references: EMBL:U82681; NID:g3603108; PID:g3503111; PIDN: AAC62272.1 C;Genetics:

A;Genome: mitochondrion A;Note: COI

C;Keywords: mitochondrion; oxidoreductase

Query Match Score 16; DB 2; Length 10; Best Local Similarity 66.7%; Pred. No. 2.6e+03; Matches 2; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 4 WXF 6 Db 6 WFF 8

RESULT 15

T12303 cytochrome-c oxidase (EC 1.9.3.1) chain I - *Dipsosaurus dorsalis* mitochondrion (fragment

C;Species: mitochondrion *Dipsosaurus dorsalis* C;Date: 23-Jul-1999 #sequence_revision 23-Jul-1999 #text_change 22-Oct-1999

C;Accession: T12303 R;Schulte, J.A.; Mace, J.R.; Larson, A.; Papenfuss, T.J.

Nat. Phlogenet. Evol. 10, 367-376, 1998 A;Title: Molecular tests of phylogenetic taxonomies: A general procedure and example usi

A;Reference number: Z17488; MUID:99162288; PMID:10051389

A;Accession: T12303 A;Status: preliminary; translated from GB/EMBL/DDBJ

A;Molecule type: DNA A;Residues: 1-10 <SCH>

A;Cross-references: EMBL:AF049857; NID:g4105726; PID:g4105729; PIDN: AAD02514.1 C;Genetics:

A;Genome: mitochondrion A;Note: COI

C;Keywords: mitochondrion; oxidoreductase

Query Match Score 16; DB 2; Length 10; Best Local Similarity 66.7%; Pred. No. 2.6e+03; Matches 2; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 4 WXF 6 Db 6 WFF 8

Search completed: December 3, 2003, 11:54:08
Job time : 11 secs

GenCore version 5.1.6
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OM protein - protein search, using BW model

Run on: December 12, 2003, 10:26:30 ; Search time 30.3 Seconds
(without alignments)
31.431 Million cell updates/sec

Title: US-09-912-414-9
Perfect score: 31
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Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1107863 seqs, 158726573 residues

Total number of hits satisfying chosen parameters: 350435

Minimum DB seq length: 0
Maximum DB seq length: 15

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

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23: /SIDS1/gcgdata/geneseq/geneseq-emb1/AA2003.DAT:*

24: /SIDS1/gcgdata/geneseq/geneseq-emb1/AA2004.DAT:*

RESULT 1
RAY30351

ID AAY30351 standard; Peptide: 15 AA.

XX

AC AAY30351;

XX

DT 09-NOV-1999 (first entry)

XX

DE Epitope derived from pneumococcal surface adhesion A protein.

XX

KW Pneumococcal surface adhesion A protein; PsA; monoclonal antibody;

XX

KW vaccine; Streptococcus pneumoniae infection.

XX

OS Streptococcus pneumoniae.

XX

PN W09945121-A1.

XX

PD 10-SEP-1999.

XX

PP 26-FEB-1999;

XX

PR 02-MAR-1998;

XX

(USSH) US DEPT HEALTH & HUMAN SERVICES.

XX

Ades EW, Carbone GM, Sampson JS, Tharpe JA, Westerink MAJ;

XX

Pi Zeiler JL;

XX

DR WPI; 1999-54084/45.

XX

New peptides corresponding to *Streptococcus pneumoniae* PsA, used for treating or preventing *Streptococcus pneumoniae* infection in a

Pe. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	28	90.3	15	20 AAY20351	Epitope derived for <i>Streptococcus pneumoniae</i> adhesion A protein; Peptide: 15 AA.
2	28	90.3	15	23 AAE19239	Fibrin binding loop peptide which bind
3	27	87.1	9	23 AAE26751	Fibrin binding loop peptide which bind
4	27	87.1	15	23 AAE6733	Peptide which bind
5	26	83.9	6	21 AAB01505	Peptide which bind
6	26	83.9	6	21 AAB01506	Peptide which bind
7	26	83.9	6	21 AAB1505	Peptide which bind
8	26	83.9	6	24 ABR45313	Staphylococcus aureus
9	26	83.9	6	24 ABR45314	Staphylococcus aureus

PT	subject	Db	7 WTAWAF 12
XX	PS	PS	Claim 6; Page 43; 58pp; English.
CC	AY30351-54 represent immunogenic peptides which are derived from a pneumococcal surface adhesin A protein (PsaA). The specification describes monoclonal antibodies which bind epitopes of the PsaA protein (e.g. present sequence). The peptides can be used in vaccines to prevent Streptococcus pneumoniae infections. The antibodies of the invention can also be used to detect S. pneumoniae in a sample or individual.	RESULT 3	AAE26751
CC	Sequence 15 AA;	ID	AAE26751 standard; peptide; 9 AA.
CC	Query Match 1; Page 43; 58pp; English.	XX	XX
CC	Best Local Similarity 90.3%; Score 28; DB 20; Length 15;	ID	AAE26751;
CC	Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;	AC	AAE26751;
CC	OS	XX	XX
CC	Db 7 WTAWAF 12	DT	13-DEC-2002 (first entry)
CC	Sequence 15 AA;	DB	Fibrin binding loop #3.
CC	Query Match 1; Page 43; 58pp; English.	XX	XX
CC	Best Local Similarity 90.3%; Score 28; DB 20; Length 15;	PN	WC00255544-A2.
CC	Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;	PN	WC00255544-A2.
CC	OS	XX	XX
CC	Db 7 WTAWAF 12	PD	18-JUL-2002.
CC	Sequence 15 AA;	XX	XX
CC	Query Match 1; Page 43; 58pp; English.	PR	21-DEC-2001; 2001WO-US49534.
CC	Best Local Similarity 90.3%; Score 28; DB 20; Length 15;	XX	XX
CC	Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;	PA	23-DEC-2000; 2000US-0747403.
CC	OS	XX	XX
CC	Db 7 WTAWAF 12	(DYAX-)	DYAX CORP.
CC	Sequence 15 AA;	XX	XX
CC	Query Match 1; Page 43; 58pp; English.	PI	Wescott CR, Beltz JP, Sato AK;
CC	Best Local Similarity 90.3%; Score 28; DB 20; Length 15;	XX	XX
CC	Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;	DR	WPI; 2002-6666875/71.
CC	OS	XX	XX
CC	Db 7 WTAWAF 12	PT	Novel synthetic fibrin-binding moiety, useful for detecting, imaging or localizing fibrin-containing clots by magnetic resonance imaging, or radioimaging and for treating diseases involving thrombus formation e.g. stroke -
CC	Sequence 15 AA;	PT	WPI; 2002-6666875/71.
CC	OS	XX	XX
CC	Db 7 WTAWAF 12	PS	Claim 4; Page 55; 89pp; English.
CC	Sequence 15 AA;	XX	XX
CC	Query Match 1; Page 43; 58pp; English.	CC	The invention relates to a synthetic fibrin binding group having affinity for fibrin. The invention is useful for detecting fibrin in a mammalian subject which involves (a) detectably labelling the binding group; (b) administering to the subject the labelled polypeptide, and (c) detecting the labelled polypeptide in the subject. The invention is useful for treating a disease involving thrombosis formation e.g. deep-vein thrombosis, pulmonary embolism, cardiogenic thrombosis, myocardial infarct, reperfusion ischaemia or stroke. The binding moieties are useful for detection, imaging and localisation of fibrin-containing clots by magnetic resonance imaging, radioimaging and other imaging methods and where fibrin plays a role. The fibrin binding moieties are useful for detecting and diagnosing numerous pathophysiologicals in which fibrin plays a role e.g. peritoneal adhesions which often occur after surgery or inflammatory and neoplastic processes and are comprised of a fibrin network, fibroblasts, macrophages and new blood vessels, rheumatoid arthritis, lupus or septic arthritis which often have bits of fibrin containing tissues called rice bodies in the synovial fluid of their joints; thrombocytopenic purpura, a type of anaemia in which deposits in arterioles causes turbulent blood flow resulting in stress and destruction of red blood cells. The fibrin specific agents can also be used to detect hypoxia or ischaemia of heart, kidney, liver, lung, brain or other organs, as well as the detection of tumours, diabetic retinopathy, early or high-risk atherosclerosis and other autoimmune and inflammatory disorders. Fibrin specific agents also could provide both direct or surrogate markers of disease models in which hypoxia and angiogenesis are expected to play a role. The invention is also useful for screening molecular libraries. The present sequence is a fibrin binding loop.
CC	Best Local Similarity 90.3%; Score 28; DB 23; Length 15;	SQ	Sequence 15 AA;
CC	Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;	CC	WPI; 2002-195762/25.
CC	OS	XX	XX
CC	Db 7 WTAWAF 12	PS	Claim 2; Page 56; 86pp; English.
CC	Sequence 15 AA;	XX	XX
CC	Query Match 1; Page 43; 58pp; English.	CC	The invention relates to multiple antigenic peptides (MAP) immunogenic against Streptococcus pneumoniae. MAP binds to monoclonal antibody obtained in response to immunising an animal with pneumococcal surface adhesin protein A (PsaA) or its fragment. MAP is useful for conferring protective immunity against S. pneumoniae infection in a subject. The present sequence is Streptococcus pneumoniae PsaA immunogenic peptide.
CC	Best Local Similarity 90.3%; Score 28; DB 23; Length 15;	SQ	Sequence 15 AA;
CC	Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;	CC	WPI; 2002-195762/25.
CC	OS	XX	XX
CC	Db 7 WTAWAF 12	PS	Claim 1; Page 56; 86pp; English.
CC	Sequence 15 AA;	XX	XX
CC	Query Match 1; Page 43; 58pp; English.	CC	The invention relates to multiple antigenic peptides (MAP) immunogenic against Streptococcus pneumoniae. MAP binds to monoclonal antibody obtained in response to immunising an animal with pneumococcal surface adhesin protein A (PsaA) or its fragment. MAP is useful for conferring protective immunity against S. pneumoniae infection in a subject. The present sequence is Streptococcus pneumoniae PsaA immunogenic peptide.
CC	Best Local Similarity 90.3%; Score 28; DB 23; Length 15;	SQ	Sequence 15 AA;
CC	Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;	CC	WPI; 2002-195762/25.
CC	OS	XX	XX

Query Match 87.1%; Score 27; DB 23; Length 9;
 Best Local Similarity 50.0%; Pred. No. 9.3e+05;
 Matches 3; Conservative 0; Mismatches 3; Indels 0;
 Gaps 0;

Qy 1 WXXWXP 6
 Db 3 WESWTF 8

RESULT 4
 AAE26733 standard; peptide; 15 AA.

XX AAE26733
 AC AAE26733;
 XX
 DT 13-DEC-2002 (first entry)
 XX Fibrin binding peptide #4.
 XX
 KW Fibrin binding peptide; thrombosis; pulmonary embolism; atherosclerosis;
 KW myocardial infarct; ischaemia; imaging; rheumatoid arthritis; vasotrophic;
 KW anaemia; hypoxia; tumour; diabeteric retinopathy; autoimmune disorder;
 KW inflammatory disorder; angiogenesis; stroke; cerebroprotective.
 XX
 OS Unidentified.
 XX PN WO200255544-A2.
 XX PD 18-JUL-2002.
 XX PF 21-DEC-2001; 2001WO-US49534.
 XX PR 23-DEC-2000; 2000US-0747403.
 XX (DYAX-) DYAX CORP.
 XX P1 Wescott CR, Beltzer JP, Sato AK;
 XX DR WPI; 2002-666875/11.
 XX
 PT Novel synthetic fibrin-binding moiety, useful for detecting, imaging or
 PT localizing fibrin-containing clots by magnetic resonance imaging,
 PT radioimaging and for treating diseases involving thrombus formation
 PT e.g. stroke -
 XX
 PS Claim 10; Page 57; 89pp; English.
 XX
 CC The invention relates to a synthetic fibrin binding group having affinity
 CC for fibrin. The invention is useful for detecting fibrin in a mammalian
 CC subject which involves (a) detectably labelling the binding group; (b)
 CC administering to the subject the labelled polypeptide, and (c) detecting
 CC the labelled polypeptide in the subject. The invention is useful for
 CC treating a disease involving thrombus formation e.g. deep vein thrombosis,
 CC pulmonary embolism, cardiogenic thrombosis, myocardial
 CC infarct, reperfusion ischaemia or stroke. The binding moieties are useful
 CC for detection, imaging and localisation of fibrin-containing clots by
 CC magnetic resonance imaging, radioimaging and other imaging methods and
 CC are also useful in the diagnosis and treatment of coronary conditions
 CC where fibrin plays a role. The fibrin binding moieties are useful for
 CC detecting and diagnosing numerous pathophysiolgies in which fibrin plays
 CC a role e.g. peritoneal adhesions which often occur after surgery or
 CC inflammatory and neoplastic processes and are comprised of fibrin
 CC network, fibroblasts, macrophages and new blood vessels; rheumatoid
 CC arthritis, lupus or septic arthritis which often have bits of fibrin
 CC containing tissues called rite bodies in the synovial fluid of their
 CC joints; thrombocytopenic purpura, a type of anaemia in which deposits in
 CC arterioles causes turbulent blood flow resulting in stress and
 CC destruction of red blood cells. The fibrin specific agents can also be
 CC used to detect hypoxia or ischaemia of heart, kidney, liver, lung, brain
 CC or other organs, as well as the detection of tumours, diabetic
 CC retinopathy, early or high-risk atherosclerosis and other autoimmune and
 CC inflammatory disorders. Fibrin specific agents also could provide both
 CC direct or surrogate markers of disease models in which hypoxia and

CC angiogenesis are expected to play a role. The invention is also useful
 CC for screening molecular libraries. The present sequence is a fibrin
 CC binding peptide.

XX SQ Sequence 15 AA;

Query Match 87.1%; Score 27; DB 23; Length 15;
 Best Local Similarity 50.0%; Pred. No. 1.6e+02;
 Matches 3; Conservative 0; Mismatches 3; Indels 0;
 Gaps 0;

Qy 1 WXXWXP 6
 Db 6 WESWTF 11

RESULT 5
 AAB01505 standard; peptide; 6 AA.

XX AC AAB01505;
 XX DB Peptide which binds to transcription factor B2F-1 DNA binding domain.
 XX DT 08-NOV-2000 (first entry)
 XX DB DNA binding; transcription factor; E2F; E2F-1; cell cycle; DP-1;
 KW activation; transcription; apoptosis; proliferative disorder;
 KW psoriasis; restenosis.
 XX OS Synthetic.
 XX PN WO200044771-A1.
 XX PD 03-AUG-2000.
 XX PF 26-JAN-2000; 2000WO-GB00227.
 XX PR 26-JAN-1999;
 XX PA (PROLIFIX LTD.)
 XX DR WPI; 2000-532806/48.
 XX
 PT Peptides binding to the DNA binding domain of transcription factor E2F
 PT and inhibiting cell cycle progression, useful for the treatment of
 PT cancer.
 XX Example; Page 26; 42pp; English.
 XX
 CC Peptides which bind to the DNA binding domain of transcription
 CC factor E2F and inhibit cell cycle progression may be useful as
 CC research agents to investigate the interaction between E2F and DP-1,
 CC or the activation of transcription by B2F-1/DP-1 heterodimers. They
 CC may also be used for inducing apoptosis and/or cell cycle arrest in
 CC a cell, particularly for treatment of cancer or other proliferative
 CC disorders such as psoriasis and restenosis.

XX SQ Sequence 6 AA;

Query Match 83.9%; Score 26; DB 21; Length 6;
 Best Local Similarity 50.0%; Pred. No. 9.3e+03;
 Matches 3; Conservative 0; Mismatches 3; Indels 0;
 Gaps 0;

Qy 1 WXXWXP 6
 Db 1 WARWHP 6

RESULT 6
 AAB01506 standard; peptide; 6 AA.

ID AAB01506

XX	AAB01506;	XX	26-JAN-1999;	99GB-0001710.
AC		XX		(PROL-) PROLIFIX LTD.
XX	08-NOV-2000 (first entry)	PA		
DE	Peptide which binds to transcription factor E2F-1 DNA binding domain.	XX		
XX		PI	Mueller R, Kontermann RE, Montigiani S;	
DE	DNA binding; transcription factor; E2F; E2F-1; cell cycle; DP-1;	XX		
XX	activation; transcription; apoptosis; proliferative disorder;	DR	WPI; 2000-532806/48.	
KW	psoriasis; restenosis.	XX		Peptides binding to the DNA binding domain of transcription factor E2F and inhibiting cell cycle progression, useful for the treatment of cancer.
OS	Synthetic.	XX		
XX		PS	Example; Page 26, 42pp; English.	
PN	WO200044771-A1.	XX		Peptides which bind to the DNA binding domain of transcription factor E2F and inhibit cell cycle progression may be useful as research agents to investigate the interaction between E2F and DP-1, or the activation of transcription by E2F-1/DP-1 heterodimers. They may also be used for inducing apoptosis and/or cell cycle arrest in a cell, particularly for treatment of cancer or other proliferative disorders such as psoriasis and restenosis.
XX	03-AUG-2000.	CC		
PD		CC		Peptides which bind to the DNA binding domain of transcription factor E2F and inhibit cell cycle progression may be useful as research agents to investigate the interaction between E2F and DP-1, or the activation of transcription by E2F-1/DP-1 heterodimers. They may also be used for inducing apoptosis and/or cell cycle arrest in a cell, particularly for treatment of cancer or other proliferative disorders such as psoriasis and restenosis.
XX	26-JAN-2000; 2000WO-GB00227.	CC		
PF		CC		Peptides which bind to the DNA binding domain of transcription factor E2F and inhibit cell cycle progression may be useful as research agents to investigate the interaction between E2F and DP-1, or the activation of transcription by E2F-1/DP-1 heterodimers. They may also be used for inducing apoptosis and/or cell cycle arrest in a cell, particularly for treatment of cancer or other proliferative disorders such as psoriasis and restenosis.
PR	26-JAN-1999;	CC		
PR	99GB-0001710.	CC		Peptides which bind to the DNA binding domain of transcription factor E2F and inhibit cell cycle progression may be useful as research agents to investigate the interaction between E2F and DP-1, or the activation of transcription by E2F-1/DP-1 heterodimers. They may also be used for inducing apoptosis and/or cell cycle arrest in a cell, particularly for treatment of cancer or other proliferative disorders such as psoriasis and restenosis.
PA	(PROL-) PROLIFIX LTD.	CC		
PI	Mueller R, Kontermann RE, Montigiani S;	AX		Peptides which bind to the DNA binding domain of transcription factor E2F and inhibit cell cycle progression may be useful as research agents to investigate the interaction between E2F and DP-1, or the activation of transcription by E2F-1/DP-1 heterodimers. They may also be used for inducing apoptosis and/or cell cycle arrest in a cell, particularly for treatment of cancer or other proliferative disorders such as psoriasis and restenosis.
XX		SQ	Sequence 6 AA;	
DR	WPI; 2000-532806/48.	XX	Query Match 83.9%; Best Local Similarity 50.0%; Pred. No. 9.3e+05; Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;	Score 26; DB 21; Length 6;
XX		Qy	1 WXXWXP 6	
PT	Peptides binding to the DNA binding domain of transcription factor E2F and inhibiting cell cycle progression, useful for the treatment of cancer.	DB	1 WVRWAF 6	
PT				
PT				
XX				
PS	Example; Page 26, 42pp; English.			
XX				
CC	Peptides which bind to the DNA binding domain of transcription factor E2F and inhibit cell cycle progression may be useful as research agents to investigate the interaction between E2F and DP-1, or the activation of transcription by E2F-1/DP-1 heterodimers. They may also be used for inducing apoptosis and/or cell cycle arrest in a cell, particularly for treatment of cancer or other proliferative disorders such as psoriasis and restenosis.	XX	DT 10-JUN-2003 (first entry)	RESULT 8
CC		XX		ABR45313
CC		XX		ABR45313 standard; Peptide; 6 AA.
CC		XX		
CC		AC		
CC		XX		
CC		DE		
CC		XX		Staphylococcus aureus CHIPS-related peptide #503.
CC		XX		
CC		KW		CHIPS; Chemotaxis Inhibitory Protein; CSa-receptor; CSaR;
CC		KW		formylated peptide receptor; FPR; neutrophil; monocyte; endothelial cell;
CC		KW		inflammation; cardiovascular disease; skin disease; central nervous system disease;
CC		KW		gastrointestinal disease; genitourinary disease; joint disease; respiratory disease; HIV infection; antiinflammatory;
CC		KW		cardiotropic; neuroprotective; nootropic; dermatology; gynecological; immunosuppressive; anti-HIV.
CC		KW		
XX		OS		
XX		OS		Staphylococcus aureus.
XX		OS		Synthetic.
XX		XX		W02003006048-A1.
XX		XX		23-JAN-2003.
XX		PD		
XX		XX		11-JUL-2001; 2001WO-EP08004.
DE	Peptide which binds to transcription factor E2F-1 DNA binding domain.	XX		
XX		PR		11-JUL-2001; 2001WO-EP08004.
KW	DNA binding; transcription factor; E2F; E2F-1; cell cycle; DP-1;	XX		
KW	activation; transcription; apoptosis; proliferative disorder;	XX		
KW	psoriasis; restenosis.	XX		
OS	Synthetic.	XX		
XX		PI		
PN	WO200044771-A1.	XX		
XX		DR		
PD	03-AUG-2000.	XX		Combination of peptides derived from chemotaxis inhibiting protein from
XX	26-JAN-2000; 2000WO-GB00227.	PT		Staphylococcus aureus (CHIPS) having CHIPS activity, useful in
PF		PT		prophylaxis and treatment of inflammation, cardiovascular, skin and

PT kidney diseases -
 XX Disclosure; Page 12; 89pp; English.
 PS
 XX The present invention relates to peptides (ABR44811-ABR47162 and
 ABR47164-ABR47385) derived from the Chemotaxis Inhibitory Protein (CHIPS)
 from *Staphylococcus aureus*. The peptide fragments are useful in the
 prophylaxis or treatment of diseases or disorders involving the
 C5a-receptor (C5aR) and/or formylated peptide receptor (FPR) or
 neutrophils, monocytes and endothelial cells or involving acute or
 chronic inflammation reactions. The diseases or disorders include
 cardiovascular diseases, disease of the central nervous system,
 gastrointestinal diseases, skin diseases, genitourinary diseases, joint
 diseases, respiratory diseases and HIV infection.
 XX
 SQ Sequence 6 AA;
 Query Match 83.9%; Score 26; DB 24; Length 6;
 Best Local Similarity 50.0%; Pred. No. 9.3e+05;
 Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 QY 1 WXXWXF 6
 Db 1 WSFNFF 6

RESULT 9
 ABR45314 ID ABR45314 standard; Peptide; 6 AA.
 XX
 AC ABR45314;
 XX DT 10-JUN-2003 (first entry)
 DE *Staphylococcus aureus* CHIPS-related peptide #504.
 XX
 CHIPS; Chemotaxis Inhibitory Protein; C5a-receptor; C5aR;
 formylated peptide receptor; FPR; neutrophil; monocyte; endothelial cell;
 inflammation; cardiovascular disease; central nervous system disease;
 gastrointestinal disease; skin disease; genitourinary disease;
 joint disease; respiratory disease; HIV infection; antiinflammatory;
 cardiant; cerebroprotective; neuroprotective; nootropic; dermatological;
 gynecological; immunosuppressive; anti-HIV.
 XX
 OS *Staphylococcus aureus*.
 OS Synthetic.
 XX
 PN WO2003006048-A1.
 XX
 PD 23-JAN-2003.
 XX
 PF 11-JUL-2001; 2001WO-EP080004.
 XX
 PR 11-JUL-2001; 2001WO-EP080004.
 XX
 PA (JARI-) JARI PHARM BV.
 XX
 PI Van Kessel CPM, Gosselaar-de Haas CJC, Kruijzer JAW;
 PI Van Strijp JAG;
 XX
 DR WPI; 2003-247783/25.
 XX
 PR 11-JUL-2001; 2001WO-EP080004.
 XX
 PA (JARI-) JARI PHARM BV.
 XX
 PI Van Kessel CPM, Gosselaar-de Haas CJC, Kruijzer JAW;
 PI Van Strijp JAG;
 XX
 DR WPI; 2003-247783/25.
 XX
 PT Combination of peptides derived from chemotaxis inhibiting protein from
Staphylococcus aureus (CHIPS) having CHIPS activity, useful in
 prophylaxis and treatment of inflammation, cardiovascular, skin and
 kidney diseases -
 Disclosure; Page 12; 89pp; English.
 XX
 CC The present invention relates to peptides (ABR44811-ABR47162 and
 ABR47164-ABR47385) derived from the Chemotaxis Inhibitory Protein (CHIPS)
 from *Staphylococcus aureus*. The peptide fragments are useful in the
 prophylaxis or treatment of diseases or disorders involving the
 C5a-receptor (C5aR) and/or formylated peptide receptor (FPR) or
 neutrophils, monocytes and endothelial cells or involving acute or
 chronic inflammation reactions. The diseases or disorders include
 cardiovascular diseases, disease of the central nervous system,
 gastrointestinal diseases, skin diseases, genitourinary diseases, joint
 diseases, respiratory diseases and HIV infection.

XX
 Sequence 6 AA;

Query Match 83.9%; Score 26; DB 24; Length 6;
 Best Local Similarity 50.0%; Pred. No. 9.3e+05;
 Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 Qy 1 WXXXWF 6
 Db 1 WTPWIF 6

RESULT 11
 ABR45370 ID ABR45370 standard; Peptide: 6 AA.
 XX AC ABR45370;
 XX DT 10-JUN-2003 (first entry)
 XX DE Staphylococcus aureus CHIPS-related peptide #615.
 XX DS Staphylococcus aureus CHIPS-related peptide #615.
 XX KW CHIPS; Chemotaxis Inhibitory Protein; C5aR; formylated peptide receptor; C5aR; endothelial cell; monocyte; neutrophil; monocyt; central nervous system disease; inflammation; cardiovascular disease; central nervous system disease;
 KW KW gastrointestinal disease; skin disease; genitourinary disease; joint disease; respiratory disease; HIV infection; antinflammatory; cardiant; cerebroprotective; neuroprotective; nootropic; dermatological; KW KW gynecological; immunosuppressive; anti-HIV.
 XX KW CHIPS; Chemotaxis Inhibitory Protein; C5a-receptor; C5aR; formylated peptide receptor; FPR; neutrophil; monocyte; endothelial cell; inflammation; cardiovascular disease; central nervous system disease;
 KW KW gastrointestinal disease; skin disease; genitourinary disease; joint disease; respiratory disease; HIV infection; antiinflammatory; KW KW cardiant; cerebroprotective; neuroprotective; nootropic; dermatological; KW KW gynecological; immunosuppressive; anti-HIV.
 XX OS Staphylococcus aureus.
 OS Synthetic.
 XX PN WO2003006048-A1.
 XX PD 23-JAN-2003.
 XX PF 11-JUN-2001; 2001WO-EP08004.
 XX PR 11-JUL-2001; 2001WO-EP08004.
 XX PA (JARI-) JARI PHARM BV.
 XX PI Van Kessel CPM, Gosselaar-de Haas CJC, Kruijter JAW;
 PI Van Strijp JAG;
 XX DR 2003-247783/25.
 XX PT Combination of peptides derived from chemotaxis inhibiting protein from Staphylococcus aureus (CHIPS) having CHIPS activity, useful in prophylaxis or treatment of inflammation, cardiovascular, skin and kidney diseases.
 XX PT PA (JARI-) JARI PHARM BV.
 XX PS Disclosure; Page 12; 89pp; English.
 XX DR 2003-247783/25.
 XX PT Combination of peptides derived from chemotaxis inhibiting protein from Staphylococcus aureus (CHIPS) having CHIPS activity, useful in prophylaxis or treatment of inflammation, cardiovascular, skin and kidney diseases.
 XX PT PA (JARI-) JARI PHARM BV.
 XX PS Disclosure; Page 12; 89pp; English.
 XX CC The present invention relates to peptides (ABR44811-ABR47162 and ABR47164-ABR47385) derived from the Chemotaxis Inhibitory Protein (CHIPS) from Staphylococcus aureus. The peptide fragments are useful in the prophylaxis or treatment of diseases or disorders involving the C5a-receptor (C5aR) and/or formylated peptide receptor (FPR) or neutrophils, monocytes and endothelial cells or involving acute or chronic inflammation reactions. The diseases or disorders include cardiovascular diseases, disease of the central nervous system, gastrointestinal diseases, skin diseases, genitourinary diseases, joint diseases, respiratory diseases and HIV infection.
 XX SQ Sequence 6 AA;
 XX SQ Sequence 6 AA;
 CC CC Query Match 83.9%; Score 26; DB 24; Length 6;
 CC CC Best Local Similarity 50.0%; Pred. No. 9.3e+05;
 CC CC Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 CC CC Qy 1 WXXXWF 6
 CC CC Db 1 WTPWIF 6

RESULT 12
 ABR45425 ID ABR45425 standard; Peptide: 6 AA.
 XX AC ABR45425;
 XX DT 10-JUN-2003 (first entry)
 XX DS Staphylococcus aureus CHIPS-related peptide #615.
 XX KW CHIPS; Chemotaxis Inhibitory Protein; C5aR; formylated peptide receptor; FPR; neutrophil; monocyte; neutrophil; monocyt; central nervous system disease; inflammation; cardiovascular disease; central nervous system disease;
 KW KW gastrointestinal disease; skin disease; genitourinary disease; joint disease; respiratory disease; HIV infection; antinflammatory; cardiant; cerebroprotective; neuroprotective; nootropic; dermatological; KW KW gynecological; immunosuppressive; anti-HIV.
 XX OS Staphylococcus aureus.
 OS Synthetic.
 XX PN WO2003006048-A1.
 XX PD 23-JAN-2003.
 XX PF 11-JUN-2001; 2001WO-EP08004.
 XX PR 11-JUL-2001; 2001WO-EP08004.
 XX PA (JARI-) JARI PHARM BV.
 XX PI Van Kessel CPM, Gosselaar-de Haas CJC, Kruijter JAW;
 PI Van Strijp JAG;
 XX DR 2003-247783/25.
 XX PT Combination of peptides derived from the Chemotaxis Inhibitory Protein (CHIPS) from Staphylococcus aureus. The peptide fragments are useful in the prophylaxis or treatment of diseases or disorders involving the C5a-receptor (C5aR) and/or formylated peptide receptor (FPR) or neutrophils, monocytes and endothelial cells or involving acute or chronic inflammation reactions. The diseases or disorders include cardiovascular diseases, disease of the central nervous system, gastrointestinal diseases, skin diseases, genitourinary diseases, joint diseases, respiratory diseases and HIV infection.
 XX SQ Sequence 6 AA;
 XX SQ Sequence 6 AA;
 CC CC Query Match 83.9%; Score 26; DB 24; Length 6;
 CC CC Best Local Similarity 50.0%; Pred. No. 9.3e+05;
 CC CC Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 CC CC Qy 1 WXXXWF 6
 CC CC Db 1 WTPWIF 6

RESULT 13
 ABR45426 ID ABR45426 standard; Peptide: 6 AA.
 XX AC ABR45426;
 XX XX

XX 23-JAN-2003. PI Van Kessel CPM, Gosselaar-de Haas CJC, Kruijzer JAW;
 PD XX Van Strijp JAG;
 PP XX DR WPI; 2003-247781/25.

XX Combination of peptides derived from chemotaxis inhibiting protein from Staphylococcus aureus (CHIPS) having CHIPS activity, useful in prophylaxis and treatment of inflammation, cardiovascular, skin and kidney diseases -

XX PI AX Disclosure; Page 13; 89pp; English.

XX The present invention relates to peptides (ABR44811-ABR47162 and ABR47164-ABR47385) derived from the Chemotaxis Inhibitory Protein (CHIPS) from Staphylococcus aureus. The peptide fragments are useful in the prophylaxis or treatment of diseases or disorders involving the C5a-receptor (C5aR) and/or formylated peptide receptor (FPR) or neutrophils, monocytes and endothelial cells or involving acute or chronic inflammation reactions. The diseases or disorders include cardiovascular diseases, disease of the central nervous system, gastrointestinal diseases, skin diseases, genitourinary diseases, joint diseases, respiratory diseases and HIV infection.

XX CC SQ Sequence 6 AA;

CC Query Match 83.9%; Score 26; DB 24; Length 6;
 CC Best Local Similarity 50.0%; Pred. No. 9.3e+05;
 CC Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

XX DB Query Match 83.9%; Score 26; DB 24; Length 6;
 CC Best Local Similarity 50.0%; Pred. No. 9.3e+05;
 CC Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

XX XX SQ Sequence 6 AA;

XX RESULT 17
 ID ABR45594 standard; Peptide; 6 AA.
 XX AC ABR45594;
 XX DT 10-JUN-2003 (first entry)

XX DE Staphylococcus aureus CHIPS-related peptide #784.

XX CHIPS; Chemotaxis Inhibitory Protein; C5a-receptor; C5aR; endothelial cell; formylated peptide receptor; FPR; neutrophil; monocyte; endothelial cell; inflammation; cardiovascular disease; central nervous system disease; gastrointestinal disease; skin disease; genitourinary disease; joint disease; respiratory disease; HIV infection; antiinflammatory; cardiant; cerebroprotective; neuroprotective; nontropic; dermatological; gynecological; immunosuppressive; anti-HIV.

XX OS Synthetic.

XX PA (JARI-) JARI PHARM BV.

XX PN WO2003005048-A1.

XX PD 23-JAN-2003.

XX PP 11-JUL-2001; 2001WO-EP08004.

XX PR 11-JUL-2001; 2001WO-EP08004.

XX DR WPI; 2003-247783/25.

XX Combination of peptides derived from chemotaxis inhibiting protein from Staphylococcus aureus (CHIPS) having CHIPS activity, useful in

PA (JARI-) JARI PHARM BV.

PT Prophylaxis and treatment of inflammation, cardiovascular, skin and kidney diseases -
 PT Disclosure; Page 13; 89pp; English.
 XX

CC The present invention relates to peptides (ABR44811-ABR47162 and ABR47164; ABR47385) derived from the Chemotaxis Inhibitory Protein (CHIPS) from *Staphylococcus aureus*. The peptide fragments are useful in the prophylaxis or treatment of diseases or disorders involving the C5a receptor (C5aR) and/or formylated peptide receptor (FPR) or neutrophils, monocytes and endothelial cells or involving acute or chronic inflammation reactions. The diseases or disorders include cardiovascular diseases, disease of the central nervous system, gastrointestinal diseases, skin diseases, genitourinary diseases, joint diseases, respiratory diseases and HIV infection.

XX Sequence 6 AA;

Query Match Score 26; DB 24; Length 6;
 Best Local Similarity 50.0%; Pred. No. 9.3e+05;
 Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 WXXKXF 6
 Db 1 WTEWYF 6

RESULT 18
 AAE26775 ID AAE26775 standard; peptide; 9 AA.
 AC AAE26775;
 XX DT 13-DEC-2002 (first entry)

XX Fibrin binding peptide #28.

XX Fibrin binding peptide; thrombosis; pulmonary embolism; atherosclerosis; myocardial infarct; ischaemia; imaging; rheumatoid arthritis; vasotropics; anaemia; hypoxia; tumour; diabetic retinopathy; autoimmune disorder; inflammatory disorder; angiogenesis; stroke; cerebroprotective.

XX Unidentified.

OS WO0025544-A2.
 PN (DYAX-) DYAX CORP.
 XX 18-JUL-2002.
 XX 21-DEC-2001; 2001WO-US49534.
 XX 23-DEC-2000; 2000US-0747403.
 PR (DYAX-) DYAX CORP.
 XX Wescott CR, Beltzer JP, Sato AK;
 XX DR 2002-666875/21.

XX Novel synthetic fibrin-binding moiety, useful for detecting, imaging or localizing fibrin-containing clots by magnetic resonance imaging, radioimaging and for treating diseases involving thrombus formation, e.g. stroke -

XX Claim 4; Page 55; 89pp; English.

CC The invention relates to a synthetic fibrin binding group having affinity for fibrin. The invention is useful for detecting fibrin in a mammalian subject which involves (a) detectably labelling the binding group; (b) administering to the subject the labelled polypeptide, and (c) detecting the labelled polypeptide in the subject. The invention is useful for treating a disease involving thrombus formation, e.g. deep vein thrombosis, pulmonary embolism, cardiogenic thrombosis, atherosclerosis, myocardial infarct, reperfusion ischaemia or stroke. The binding moieties are useful for detection, imaging and localisation of fibrin-containing clots by magnetic resonance imaging, radioimaging and other imaging methods and are also useful in the diagnosis and treatment of coronary conditions where fibrin plays a role. The fibrin binding moieties are useful for detecting and diagnosing numerous pathophysiolgies in which fibrin plays a role e.g. peritoneal adhesions which often occur after surgery or inflammatory and neoplastic processes and are comprised of a fibrin network, fibroblasts, macrophages and new blood vessels; rheumatoid arthritis, lupus or septic arthritis which often have bits of fibrin containing tissues called rice bodies in the synovial fluid of their joints; thrombocytopenic purpura, a type of anaemia in which deposits in arterioles causes turbulent blood flow resulting in stress and destruction of red blood cells. The fibrin specific agents can also be used to detect hypoxia or ischaemia of heart, kidney, liver, lung, brain or other organs, as well as the detection of tumours, diabetic retinopathy, early or high-risk atherosclerosis and other autoimmune and inflammatory disorders. Fibrin specific agents also could provide both direct or surrogate markers of disease models in which hypoxia and angiogenesis are expected to play a role. The invention is also useful for screening molecular libraries. The present sequence is a fibrin binding peptide.

XX SQ Sequence 9 AA;

Query Match Score 26; DB 23; Length 9;
 Best Local Similarity 50.0%; Pred. No. 9.3e+05;
 Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 WXXKXF 6
 Db 3 WGSWKF 8

RESULT 19
 AAY65508 ID AAY65508 standard; Peptide; 15 AA.
 XX AC AAY65508;
 XX DT 01-FEB-2000 (First entry)

XX Oestrogen receptor alpha binding peptide 5PT.

XX Oestrogen receptor; estrogen; estradiol; oestrogen response element; ERB; binding; biological activity; fingerprin; molecular braille; cellular braille; modulation; tamoxifen; breast cancer; ovarian cancer; menopause; osteoporosis; selective oestrogen receptor modulator; identification; characterisation; classification; classification.

XX OS Synthetic.
 Homo sapiens.

XX OS Homo sapiens.

XX WO954728-A2.

XX 28-OCT-1999.

XX 26-MAR-1999; 99WO-US06664.

XX PR 23-APR-1998; 98US-0082756.
 XX PR 09-SEP-1998; 98US-01099656.
 XX PR 08-JAN-1999; 99US-0115345.

XX (NOVALON PHARM CORP. PA (NOVALON PHARM CORP.

XX PR 23-APR-1998; 98US-0082756.
 XX PR 09-SEP-1998; 98US-01099656.
 XX PR 08-JAN-1999; 99US-0115345.

XX (NOVALON PHARM CORP. PA (NOVALON PHARM CORP.

XX Paige LA, Hamilton PT, Fowlkes DM, Buehrer B, Barnett T;
 PI McDonnell DP, Christensen DJ;
 XX DR WPI; 2000-013281/01.

XX Methods for identifying new receptor modulators, especially estrogen PR modulators to treat tamoxifen refractory breast cancer -
 XX Example 2.1; Page 159; 219pp; English.

XX The present invention describes a method for predicting the biological activity of new receptor modulating compounds (1) using novel oligomeric peptides (biokeys) which have differential abilities to bind to 2 different receptor conformations. The method is used to identify new drugs that are physiological or pharmacological agonists/antagonists and that target various receptors, which are involved in certain disease conditions. The system may be used as a primary screening tool to identify hits, to classify lead compounds from a drug screen to, characterise selective oestrogen receptor modulators (SERMs) in terms of agonist and antagonist function and to predict possible clinical effects of SERMs such as tissue and receptor specificity. The method can also be applied to the fractionation of mixtures of SERMs to determine which components are producing agonistic and antagonistic activity. The method may be used with other receptors (e.g. progesterone, androgen, glucocorticoid, thyroid, vitamin D, beta-adrenergic, dopamine and epidermal growth factor, to identify, characterise and classify modulators of receptor activity. Peptides comprising a LXXNL motif may be used to modulate the oestrogen receptor in treating e.g. breast and ovarian cancer and ameliorating the effects of menopause, including osteoporosis. AAY65439 to AAY65652 represent oestrogen receptor, estradiol receptor and oestrogen response element binding peptides given in the exemplification of the present invention. AAZ25740 to AAZ35745 represent oligonucleotides used in the exemplification of the present invention.

XX Sequence 15 AA;

Query Match 83.9%; Score 26; DB 21; Length 15;
Best Local Similarity 50.0%; Pred. No. 2.4e+02;
Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
Oy 1 WWWXWF 6
Db 8 WYDWTF 13

XX Sequence 15 AA;

Query Match 83.9%; Score 26; DB 21; Length 15;
Best Local Similarity 50.0%; Pred. No. 2.4e+02;
Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
Oy 1 WWWXWF 6
Db 8 WYDWTF 13

XX Sequence 15 AA;

Query Match 83.9%; Score 26; DB 21; Length 15;
Best Local Similarity 50.0%; Pred. No. 2.4e+02;
Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
Oy 1 WWWXWF 6
Db 8 WYDWTF 13

XX Sequence 15 AA;

Query Match 83.9%; Score 26; DB 21; Length 15;
Best Local Similarity 50.0%; Pred. No. 2.4e+02;
Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
Oy 1 WWWXWF 6
Db 8 WYDWTF 13

XX Sequence 15 AA;

Query Match 83.9%; Score 26; DB 21; Length 15;
Best Local Similarity 50.0%; Pred. No. 2.4e+02;
Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
Oy 1 WWWXWF 6
Db 8 WYDWTF 13

XX Sequence 15 AA;

Query Match 83.9%; Score 26; DB 21; Length 15;
Best Local Similarity 50.0%; Pred. No. 2.4e+02;
Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
Oy 1 WWWXWF 6
Db 8 WYDWTF 13

XX Sequence 15 AA;

Query Match 83.9%; Score 26; DB 21; Length 15;
Best Local Similarity 50.0%; Pred. No. 2.4e+02;
Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
Oy 1 WWWXWF 6
Db 8 WYDWTF 13

XX Sequence 15 AA;

Query Match 83.9%; Score 26; DB 21; Length 15;
Best Local Similarity 50.0%; Pred. No. 2.4e+02;
Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
Oy 1 WWWXWF 6
Db 8 WYDWTF 13

XX Sequence 15 AA;

The present invention discloses a serine/threonine protein kinase 9.13,

CC the polynucleotides encoding the polypeptide, and a DNA recombination process to produce the polypeptide. The present invention also discloses CC applying the polypeptide in treating various diseases, such as embryonic CC development malformation, various tumours and protein metabolic disorder. CC The present invention also discloses the antagonist resisting the CC polypeptide and its treatment effect. The current sequence represents the CC serine/threonine protein kinase 9.13 N-terminal peptide sequence.
XX SQ Sequence 15 AA;
XX Query Match 83.9%; Score 26; DB 23; Length 15;
XX Best Local Similarity 50.0%; Pred. No. 2.4e+02;
XX Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
XX Oy 1 WXXWWXF 6
XX Db 6 WLFWSF 11
XX RESULT 21
XX ID AAE26759
XX XX AAE26759 standard; peptide; 15 AA.
XX AC AAE26759;
XX DT 13-DEC-2002 (first entry)
XX XX DE Fibrin binding peptide #12.
XX KW Fibrin binding peptide; thrombosis; pulmonary embolism; atherosclerosis;
XX KW myocardial infarct; ischaemia; imaging; rheumatoid arthritis; vasotropic;
XX KW anaemia; hypoxia; tumour; diabetic retinopathy; autoimmune disorder;
XX KW inflammatory disorder; angiogenesis; stroke; cerebroprotective.
XX Unidentified.
XX OS WO20025544-A2.
XX PN WO20025544-A2.
XX PD 18-JUL-2002.
XX XX PF 21-DEC-2001; 2001WO-US49534.
XX PR 23-DEC-2000; 2000US-0747403.
XX PA (DYAX-) DYAX CORP.
XX XX DR Wescott CR, Beltzner JP, Sato AK;
XX PT Novel synthetic fibrin-binding moiety, useful for detecting, imaging or
PT localizing fibrin-containing clots by magnetic resonance imaging,
PT radioimaging and for treating diseases involving thrombus formation
PT e.g. stroke -
XX XX PS Claim 10; Page 58; 89PP; English.
XX CC The invention relates to a synthetic fibrin binding group having an affinity
CC for fibrin. The invention is useful for detecting fibrin in a mammalian
CC subject which involves (a) detectably labelling the binding group; (b)
CC administering the labelled polypeptide, and (c) detecting
CC the labelled polypeptide in the subject. The invention is useful for
CC treating a disease involving thrombus formation e.g. deep-vein thrombosis,
CC pulmonary embolism, cardiogenic thrombosis, atherosclerosis, myocardial
CC infarct, reperfusion ischaemia or stroke. The binding moieties are useful
CC for detection, imaging and localisation of fibrin-containing clots by
CC magnetic resonance imaging, radioimaging and other imaging methods and
CC are also useful in the diagnosis and treatment of coronary conditions
CC where fibrin plays a role. The fibrin binding moieties are useful for
CC detecting and diagnosing numerous pathophysiology in which fibrin plays
CC a role e.g. peritoneal adhesions which often occur after surgery or
CC inflammatory and neoplastic processes and are comprised of fibrin
CC network, fibroblasts, macrophages and new blood vessels; rheumatoid
CC

CC by the claimed generic formula:
 CC $H-X-(A-B)n-Y-Z$
 CC A = Trp, Phe or a Peptide fragment consisting of 2 residues;
 CC B = Trp, Phe, Asn or Glu;
 CC X and Y = a bond or ASP, Glu, Arg, Lys, His or a peptide fragment
 CC consisting of 2-10 residues, provided that at least one of
 CC X or Y are present;
 CC 2 = OH or NH₂; and
 CC n = 2-5.
 CC These peptides may be immobilised on a carrier in the preparation of an
 CC absorbing agent which may be used in the treatment of diseases related
 CC to anti-DNA antibodies and/or immune complex.

XX Sequence 6 AA;

Query Match 80.6%; Score 25; DB 15; Length 6;
 Best Local Similarity 50.0%; Pred. No. 9.3e+05;
 Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

SQ 1 WXXWXP 6

Db 1 WYRWHF 6

Qy 1 WXXWXP 6

Db 1 WYRWHF 6

RESULT 25.

AAB01497 standard; peptide: 6 AA.
 ID AAB01497
 AC AAB01497;
 XX 08-NOV-2000 (first entry)

Peptide which binds to transcription factor E2F-1 DNA binding domain.

XX DNA binding; transcription factor; E2F; B2F-1; cell cycle; DP-1;
 XX activation; transcription; apoptosis; proliferative disorder;
 XX psoriasis; restenosis.

XX Synthetic.

XX Key Location/Qualifiers

FT Misc-difference 2 /note= "Any amino acid"

FT Misc-difference 3 /note= "Any amino acid"

FT Misc-difference 5 /note= "Any amino acid"

FT Misc-difference 5 /note= "Any amino acid"

OS Synthetic.

XX PD 03-AUG-2000.

XX PP 26-JAN-2000; 2000WO-GB00227.

XX PR 26-JAN-1999; 99GB-0001710.

XX PA (PROL-) PROLIFIX LTD.

XX PI Mueller R, Kontermann RE, Montigiani S;

XX DR WPI; 2000-532806/48.

XX Peptides binding to the DNA binding domain of transcription factor E2F and inhibiting cell cycle progression, useful for the treatment of cancer
 XX (PROL-) PROLIFIX LTD.
 XX PA (PROL-) PROLIFIX LTD.
 XX PI Mueller R, Kontermann RE, Montigiani S;
 XX DR WPI; 2000-532806/48.
 XX Peptides binding to the DNA binding domain of transcription factor E2F and inhibiting cell cycle progression, useful for the treatment of cancer
 XX PR 26-JAN-1999; 99GB-0001710.
 XX PA (PROL-) PROLIFIX LTD.
 XX PI Mueller R, Kontermann RE, Montigiani S;
 XX DR WPI; 2000-532806/48.
 XX Peptides binding to the DNA binding domain of transcription factor E2F and inhibit cell cycle progression may be useful as research agents to investigate the interaction between E2F and DP-1, or the activation of transcription by E2F-1/DP-1 heterodimers. They may also be used for inducing apoptosis and/or cell cycle arrest in a cell, particularly for treatment of cancer or other proliferative disorders such as psoriasis and restenosis.

XX SQ Sequence 6 AA;

XX Peptides which bind to the DNA binding domain of transcription factor E2F and inhibit cell cycle progression may be useful as research agents to investigate the interaction between E2F and DP-1, or the activation of transcription by E2F-1/DP-1 heterodimers. They may also be used for inducing apoptosis and/or cell cycle arrest in a cell, particularly for treatment of cancer or other proliferative disorders such as psoriasis and restenosis.

XX PS Sequence 6 AA;

XX Peptides which bind to the DNA binding domain of transcription factor E2F and inhibit cell cycle progression may be useful as research agents to investigate the interaction between E2F and DP-1, or the activation of transcription by E2F-1/DP-1 heterodimers. They may also be used for inducing apoptosis and/or cell cycle arrest in a cell, particularly for treatment of cancer or other proliferative disorders such as psoriasis and restenosis.

XX SQ Sequence 6 AA;

XX Peptides which bind to the DNA binding domain of transcription factor E2F and inhibit cell cycle progression may be useful as research agents to investigate the interaction between E2F and DP-1, or the activation of transcription by E2F-1/DP-1 heterodimers. They may also be used for inducing apoptosis and/or cell cycle arrest in a cell, particularly for treatment of cancer or other proliferative disorders such as psoriasis and restenosis.

XX SQ Sequence 6 AA;

XX Peptides which bind to the DNA binding domain of transcription factor E2F and inhibit cell cycle progression may be useful as research agents to investigate the interaction between E2F and DP-1, or the activation of transcription by E2F-1/DP-1 heterodimers. They may also be used for inducing apoptosis and/or cell cycle arrest in a cell, particularly for treatment of cancer or other proliferative disorders such as psoriasis and restenosis.

XX SQ Sequence 6 AA;

XX Peptides which bind to the DNA binding domain of transcription factor E2F and inhibit cell cycle progression may be useful as research agents to investigate the interaction between E2F and DP-1, or the activation of transcription by E2F-1/DP-1 heterodimers. They may also be used for inducing apoptosis and/or cell cycle arrest in a cell, particularly for treatment of cancer or other proliferative disorders such as psoriasis and restenosis.

XX SQ Sequence 6 AA;

XX Peptides which bind to the DNA binding domain of transcription factor E2F and inhibit cell cycle progression may be useful as research agents to investigate the interaction between E2F and DP-1, or the activation of transcription by E2F-1/DP-1 heterodimers. They may also be used for inducing apoptosis and/or cell cycle arrest in a cell, particularly for treatment of cancer or other proliferative disorders such as psoriasis and restenosis.

CC by the claimed generic formula:

CC H-X-(A-B)n-Y-Z
 CC A = Trp, Phe or a Peptide fragment consisting of 2 residues;

CC B = Trp, Phe, Asn or Glu;
 CC X and Y = a bond or ASP, Glu, Arg, Lys, His or a peptide fragment
 CC consisting of 2-10 residues, provided that at least one of
 CC X or Y are present;

CC 2 = OH or NH₂; and

CC n = 2-5.
 CC These peptides may be immobilised on a carrier in the preparation of an
 CC absorbing agent which may be used in the treatment of diseases related
 CC to anti-DNA antibodies and/or immune complex.

XX Sequence 6 AA;

Query Match 80.6%; Score 25; DB 21; Length 6;
 Best Local Similarity 50.0%; Pred. No. 9.3e+05;
 Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

SQ 1 WXXWXP 6

Db 1 WYRWHF 6

Qy 1 WXXWXP 6

Db 1 WYRWHF 6

RESULT 26.

AAB01499 standard; peptide: 6 AA.

ID AAB01499
 AC AAB01499;
 XX 08-NOV-2000 (first entry)

Peptide which binds to transcription factor E2F-1 DNA binding domain.

XX DNA binding; transcription factor; E2F; B2F-1; cell cycle; DP-1;
 XX activation; transcription; apoptosis; proliferative disorder;
 XX psoriasis; restenosis.

XX Synthetic.

XX Key Location/Qualifiers

FT Misc-difference 2 /note= "Any amino acid"

FT Misc-difference 3 /note= "Any amino acid"

FT Misc-difference 5 /note= "Any amino acid"

FT Misc-difference 5 /note= "Any amino acid"

OS Synthetic.

XX PD 03-AUG-2000.

XX PP 26-JAN-2000; 2000WO-GB00227.

XX PR 26-JAN-1999; 99GB-0001710.

XX PA (PROL-) PROLIFIX LTD.

XX PI Mueller R, Kontermann RE, Montigiani S;

XX DR WPI; 2000-532806/48.

XX Peptides binding to the DNA binding domain of transcription factor E2F and inhibiting cell cycle progression, useful for the treatment of cancer
 XX (PROL-) PROLIFIX LTD.
 XX PA (PROL-) PROLIFIX LTD.
 XX PI Mueller R, Kontermann RE, Montigiani S;
 XX DR WPI; 2000-532806/48.
 XX Peptides binding to the DNA binding domain of transcription factor E2F and inhibiting cell cycle progression, useful for the treatment of cancer
 XX PR 26-JAN-1999; 99GB-0001710.
 XX PA (PROL-) PROLIFIX LTD.
 XX PI Mueller R, Kontermann RE, Montigiani S;
 XX DR WPI; 2000-532806/48.
 XX Peptides binding to the DNA binding domain of transcription factor E2F and inhibit cell cycle progression may be useful as research agents to investigate the interaction between E2F and DP-1, or the activation of transcription by E2F-1/DP-1 heterodimers. They may also be used for inducing apoptosis and/or cell cycle arrest in a cell, particularly for treatment of cancer or other proliferative disorders such as psoriasis and restenosis.

XX SQ Sequence 6 AA;

XX Peptides which bind to the DNA binding domain of transcription factor E2F and inhibit cell cycle progression may be useful as research agents to investigate the interaction between E2F and DP-1, or the activation of transcription by E2F-1/DP-1 heterodimers. They may also be used for inducing apoptosis and/or cell cycle arrest in a cell, particularly for treatment of cancer or other proliferative disorders such as psoriasis and restenosis.

XX SQ Sequence 6 AA;

XX Peptides which bind to the DNA binding domain of transcription factor E2F and inhibit cell cycle progression may be useful as research agents to investigate the interaction between E2F and DP-1, or the activation of transcription by E2F-1/DP-1 heterodimers. They may also be used for inducing apoptosis and/or cell cycle arrest in a cell, particularly for treatment of cancer or other proliferative disorders such as psoriasis and restenosis.

XX SQ Sequence 6 AA;

XX Peptides which bind to the DNA binding domain of transcription factor E2F and inhibit cell cycle progression may be useful as research agents to investigate the interaction between E2F and DP-1, or the activation of transcription by E2F-1/DP-1 heterodimers. They may also be used for inducing apoptosis and/or cell cycle arrest in a cell, particularly for treatment of cancer or other proliferative disorders such as psoriasis and restenosis.

XX SQ Sequence 6 AA;

XX Peptides which bind to the DNA binding domain of transcription factor E2F and inhibit cell cycle progression may be useful as research agents to investigate the interaction between E2F and DP-1, or the activation of transcription by E2F-1/DP-1 heterodimers. They may also be used for inducing apoptosis and/or cell cycle arrest in a cell, particularly for treatment of cancer or other proliferative disorders such as psoriasis and restenosis.

AC AAB01499 /
 XX 08-NOV-2000 (first entry)
 XX Peptide which binds to transcription factor E2F-1 DNA binding domain.
 DE XX DNA binding; transcription factor; E2F; E2F-1; cell cycle; DP-1;
 KW psoriasis; apoptosis; proliferative disorder;
 KW psoriasis; restenosis.
 KW Synthetic.
 OS XX
 XX Key
 FT Misc-difference 2 Location/Qualifiers
 FT /note= "Any amino acid"
 FT Misc-difference 3
 FT /note= "Any amino acid"
 WO200044771-A1.
 XX PD 03-AUG-2000.
 XX PP 26-JAN-2000; 20000R0-GB00227.
 XX PR 26-JAN-1999; 99GB-0001710.
 PA (PROL-) PROLIFIX LTD.
 PI Mueller R, Kontermann RE, Montigiani S;
 XX DR 2000-532806/48.
 XX Peptides binding to the DNA binding domain of transcription factor E2F
 PT and inhibiting cell cycle progression, useful for the treatment of
 PT cancer.
 XX Claim 4; Page 9; 42pp; English.
 XX Peptides which bind to the DNA binding domain of transcription
 CC factor E2F and inhibit cell cycle progression may be useful as
 CC research agents to investigate the interaction between E2F and DP-1,
 CC or the activation of transcription by E2F-1/DP-1 heterodimers. They
 CC may also be used for inducing apoptosis and/or cell cycle arrest in
 CC a cell, particularly for treatment of cancer or other proliferative
 CC disorders such as psoriasis and restenosis.
 XX SQ Sequence 6 AA;
 CC Query Match 80.6%; Score 25; DB 21; Length 6;
 CC Best Local Similarity 83.3%; Pred. No. 9.3e+05;
 CC Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 CC ID ABR44866 standard; Peptide; 6 AA.
 CC AC ABR44866;
 CC DT 10-JUN-2003 (first entry)
 CC DE Staphylococcus aureus CHIPS-related peptide #56.
 CC XX
 CC KW CHIPS; Chemotaxis Inhibitory Protein; C5a-receptor; C5aR;
 CC formylated peptide receptor; FPR; neutrophil; monocyte; endothelial cell;
 CC KW inflammation; cardiovascular disease; central nervous system disease;
 CC KW gastrointestinal disease; skin disease; genitourinary disease;
 CC KW joint disease; respiratory disease; HIV infection; antinflammatory;
 CC KW cardiot; cerebroprotective; neuroprotective; nootropic; dermatological;
 CC KW gynecological; immunosuppressive; anti-HIV.
 CC XX
 CC KW Staphylococcus aureus.
 CC OS Synthetic.
 XX
 XX WO2003006048-A1.
 XX PD 23-JAN-2003.

XX 11-JUL-2001; 2001WO-EP08004.
 PF XX
 PR XX
 11-JUL-2001; 2001WO-EP08004.
 XX (JARI-) JARI PHARM BV.
 PA XX
 Van Kessel CPM, Gosselaar-de Haas CJC, Kruijzer JAW;
 PI PI
 Van Strijp JAG;
 XX DR; 2003-247783/25.
 XX
 Combination of peptides derived from chemotaxis inhibiting protein from Staphylococcus aureus (CHIPS) having CHIPS activity, useful in prophylaxis and treatment of inflammation, cardiovascular, skin and kidney diseases -
 Disclosure; Page 10; 89pp; English.
 XX
 The present invention relates to peptides (ABR44811-ABR47162 and ABR47164-ABR47385) derived from the Chemotaxis Inhibitory Protein (CHIPS) from Staphylococcus aureus. The peptide fragments are useful in the prophylaxis and/or treatment of diseases or disorders involving the C5a-receptor (CsAR) and/or formylated peptide receptor (FPR) or neutrophils, monocytes and endothelial cells or involving acute or chronic inflammation reactions. The diseases or disorders include cardiovascular diseases, disease of the central nervous system, gastrointestinal diseases, skin diseases, genitourinary diseases, joint diseases, respiratory diseases and HIV infection.
 CC XX
 The present invention relates to peptides (ABR44811-ABR47162 and ABR47164-ABR47385) derived from the Chemotaxis Inhibitory Protein (CHIPS) from Staphylococcus aureus. The peptide fragments are useful in the prophylaxis or treatment of diseases or disorders involving the C5a-receptor (CsAR) and/or formylated peptide receptor (FPR) or neutrophils, monocytes and endothelial cells or involving acute or chronic inflammation reactions. The diseases or disorders include cardiovascular diseases, disease of the central nervous system, gastrointestinal diseases, skin diseases, genitourinary diseases, joint diseases, respiratory diseases and HIV infection.
 CC XX
 Sequence 6 AA;
 SQ Query Match 80.6%; Score 25; DB 24; Length 6;
 Best Local Similarity 50.0%; Pred. No. 9.3e+05;
 Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 ID ABR45312 standard; Peptide; 6 AA.
 XX AC ABR45312;
 XX DT 10-JUN-2003 (First entry)
 DE XX
 staphylococcus aureus CHIPS-related peptide #502.
 RESULT 29
 ABR45311 ID ABR45311 standard; Peptide; 6 AA.
 XX AC ABR45311;
 XX DT 10-JUN-2003 (First entry)
 XX DE Staphylococcus aureus CHIPS-related peptide #501.
 XX CHIPS; Chemotaxis Inhibitory Protein; CsAR; formylated peptide receptor; FPR; neutrophil; monocyte; endothelial cell; inflammation; cardiovascular disease; central nervous system disease; gastrointestinal disease; skin disease; genitourinary disease; joint disease; respiratory disease; HIV infection; antiinflammatory; Cardiant; cerebroprotective; neuroprotective; nootropic; dermatological; gynecological; immunosuppressive; anti-HIV.
 XX OS XX
 Staphylococcus aureus. Synthetic.
 XX PN WO2003006048-A1.
 XX PR XX
 XX (JARI-) JARI PHARM BV.
 XX PA XX
 Van Kessel CPM, Gosselaar-de Haas CJC, Kruijzer JAW;
 XX PI PI
 XX DR XX
 Combination of peptides derived from chemotaxis inhibiting protein from Staphylococcus aureus (CHIPS) having CHIPS activity, useful in prophylaxis and treatment of inflammation, cardiovascular, skin and kidney diseases -
 PT XX
 (JARI-) JARI PHARM BV.
 PA XX
 Van Kessel CPM, Gosselaar-de Haas CJC, Kruijzer JAW;
 PI PI

Query Match 80.6%; Score 25; DB 24; Length 6;
 Best Local Similarity 50.0%; Pred. No. 9.3e+05;
 Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 Qy 1 WXXWXF 6
 Db 1 WFWWF 6

RESULT 33
 ABR45423
 ID ABR45423 standard; Peptide; 6 AA.
 XX
 AC ABR45423;
 XX DT 10-JUN-2003 (first entry)
 DE Staphylococcus aureus CHIPS-related peptide #614.
 CHIPS; Chemotaxis Inhibitory Protein; C5a-receptor; C5aR;
 formylated peptide receptor; FPR; neutrophil; monocyte; endothelial cell;
 inflammation; cardiovascular disease; central nervous system disease;
 gastrointestinal disease; skin disease; genitourinary disease;
 joint disease; respiratory disease; HIV infection; antiinflammatory;
 cardiant; cerebroprotective; neuroprotective; nootropic; dermatological;
 gynecological; immunosuppressive; anti-HIV.
 XX
 KW Staphylococcus aureus CHIPS-related peptide #613.
 XX
 KW CHIPS; Chemotaxis Inhibitory Protein; C5a-receptor; C5aR;
 formylated peptide receptor; FPR; neutrophil; monocyte; endothelial cell;
 inflammation; cardiovascular disease; central nervous system disease;
 gastrointestinal disease; skin disease; genitourinary disease;
 joint disease; respiratory disease; HIV infection; antiinflammatory;
 cardiant; cerebroprotective; neuroprotective; nootropic; dermatological;
 gynecological; immunosuppressive; anti-HIV.
 XX
 KW Staphylococcus aureus.
 OS Synthetic.
 XX
 PN WO2003006048-A1.
 XX PR 23-JAN-2003.
 XX PD 23-JUL-2003.
 XX PF 11-JUL-2001; 2001WO-EP08004.
 XX PR 11-JUL-2001; 2001WO-EP08004.
 XX PR 11-JUL-2001; 2001WO-EP08004.
 XX PR 11-JUL-2001; 2001WO-EP08004.
 XX PA (JARI-) JARI PHARM BV.
 XX PI Van Kessel CPM, Gosselaar-de Haas CJC, Kruijter JAW;
 XX PI Van Strijp JAG;
 XX DR 2003-247783/25.
 XX PS Page 12; 89PP; English.
 XX DR 2003-247783/25.
 XX PT Combination of peptides derived from chemotaxis inhibiting protein from
 Staphylococcus aureus (CHIPS) having CHIPS activity, useful in the
 prophylaxis and treatment of inflammation, cardiovascular, skin and
 kidney diseases -
 XX PS Disclosure: Page 12; 89PP; English.
 XX CC The present invention relates to peptides (ABR44811-ABR47162 and
 ABR47164-ABR47385) derived from the Chemotaxis Inhibitory Protein (CHIPS)
 from Staphylococcus aureus. The peptide fragments are useful in the
 prophylaxis or treatment of diseases or disorders involving the
 C5a-receptor (C5aR) and/or formylated peptide receptor (FPR) or
 neutrophils, monocytes and endothelial cells or involving acute or
 chronic inflammation reactions. The diseases or disorders include
 cardiovascular diseases, disease of the central nervous system,
 gastrointestinal diseases, skin diseases, genitourinary diseases, joint
 diseases, respiratory diseases and HIV infection.
 XX SQ Sequence 6 AA;

Query Match 80.6%; Score 25; DB 24; Length 6;
 Best Local Similarity 50.0%; Pred. No. 9.3e+05;
 Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 Qy 1 WXXWXF 6
 Db 1 WFWWF 6

RESULT 34
 ABR45424
 ID ABR45424 standard; Peptide; 6 AA.
 XX
 AC ABR45424;
 XX DT 10-JUN-2003 (first entry)
 DE Staphylococcus aureus CHIPS-related peptide #614.
 CHIPS; Chemotaxis Inhibitory Protein; C5a-receptor; C5aR;
 formylated peptide receptor; FPR; neutrophil; monocyte; endothelial cell;
 inflammation; cardiovascular disease; central nervous system disease;
 gastrointestinal disease; skin disease; genitourinary disease;
 joint disease; respiratory disease; HIV infection; antiinflammatory;
 cardiant; cerebroprotective; neuroprotective; nootropic; dermatological;
 gynecological; immunosuppressive; anti-HIV.
 XX
 KW Staphylococcus aureus CHIPS-related peptide #614.
 XX
 KW CHIPS; Chemotaxis Inhibitory Protein; C5a-receptor; C5aR;
 formylated peptide receptor; FPR; neutrophil; monocyte; endothelial cell;
 inflammation; cardiovascular disease; central nervous system disease;
 gastrointestinal disease; skin disease; genitourinary disease;
 joint disease; respiratory disease; HIV infection; antiinflammatory;
 cardiant; cerebroprotective; neuroprotective; nootropic; dermatological;
 gynecological; immunosuppressive; anti-HIV.
 XX
 KW Staphylococcus aureus CHIPS-related peptide #613.
 XX
 KW CHIPS; Chemotaxis Inhibitory Protein; C5a-receptor; C5aR;
 formylated peptide receptor; FPR; neutrophil; monocyte; endothelial cell;
 inflammation; cardiovascular disease; central nervous system disease;
 gastrointestinal disease; skin disease; genitourinary disease;
 joint disease; respiratory disease; HIV infection; antiinflammatory;
 cardiant; cerebroprotective; neuroprotective; nootropic; dermatological;
 gynecological; immunosuppressive; anti-HIV.
 XX
 KW Staphylococcus aureus.
 OS Synthetic.
 XX
 PN WO2003006048-A1.
 XX PR 23-JAN-2003.
 XX PD 23-JUL-2003.
 XX PF 11-JUL-2001; 2001WO-EP08004.
 XX PR 11-JUL-2001; 2001WO-EP08004.
 XX PR 11-JUL-2001; 2001WO-EP08004.
 XX PR 11-JUL-2001; 2001WO-EP08004.
 XX PA (JARI-) JARI PHARM BV.
 XX PI Van Kessel CPM, Gosselaar-de Haas CJC, Kruijter JAW;
 XX PI Van Strijp JAG;
 XX DR 2003-247783/25.
 XX PS Disclosure: Page 12; 89PP; English.
 XX CC The present invention relates to peptides (ABR44811-ABR47162 and
 ABR47164-ABR47385) derived from the Chemotaxis Inhibitory Protein (CHIPS)
 from Staphylococcus aureus. The peptide fragments are useful in the
 prophylaxis or treatment of diseases or disorders involving the
 C5a-receptor (C5aR) and/or formylated peptide receptor (FPR) or
 neutrophils, monocytes and endothelial cells or involving acute or
 chronic inflammation reactions. The diseases or disorders include
 cardiovascular diseases, disease of the central nervous system,
 gastrointestinal diseases, skin diseases, genitourinary diseases, joint
 diseases, respiratory diseases and HIV infection.
 XX SQ Sequence 6 AA;

Query Match 80.6%; Score 25; DB 24; Length 6;
 Best Local Similarity 50.0%; Pred. No. 9.3e+05;
 Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 Qy 1 WXXWXF 6
 Db 1 WFWWF 6

RESULT 35
 ABR45479
 ID ABR45479 standard; Peptide; 6 AA.
 XX
 AC ABR45479;
 XX DT 10-JUN-2003 (first entry)

XX Staphylococcus aureus CHIPS-related peptide #669.
 DE KW cardiant; cerebroprotective; neuroprotective; nootropic; dermatological;
 XX KW gynecological; immunosuppressive; anti-HIV.
 XX KW CHIPS; Chemotaxis Inhibitory Protein; C5a-receptor; C5aR;
 KW formylated peptide receptor; FPR; neutrophil; monocyte; endothelial cell;
 KW inflammation; cardiovascular disease; central nervous system disease;
 KW gastrointestinal disease; skin disease; genitourinary disease;
 KW joint disease; respiratory disease; HIV infection; antinflammatory;
 KW cardiant; cerebroprotective; neuroprotective; nootropic; dermatological;
 KW gynecological; immunosuppressive; anti-HIV.
 OS XX Staphylococcus aureus.
 OS Synthetic.
 PN XX WO2003006048-A1.
 PD XX 23-JAN-2003.
 PF XX 11-JUL-2001; 2001WO-EP08004.
 PR XX 11-JUL-2001; 2001WO-EP08004.
 WPI XX (JARI-) JARI PHARM BV.
 PA XX Van Kessel CPM, Gosselaar-de Haas CJC, Kruijter JAW;
 PI XX Van Strijp JAG;
 DR XX Combination of peptides derived from Chemotaxis inhibiting protein from
 PT Staphylococcus aureus (CHIPS) having CHIPS activity, useful in
 PT prophylaxis and treatment of inflammation, cardiovascular, skin and
 PT kidney diseases.
 XX Disclosure; Page 13; 89pp; English.
 PS XX The present invention relates to peptides (ABR44811-ABR47162 and
 CC ABR47164-ABR47385) derived from the Chemotaxis Inhibitory Protein (CHIPS)
 CC from Staphylococcus aureus. The peptide fragments are useful in the
 CC prophylaxis or treatment of diseases or disorders involving the
 CC C5a-receptor (C5aR) and/or formylated peptide receptor (FPR) or
 CC neutrophils, monocytes and endothelial cells or involving acute or
 CC chronic inflammation reactions. The diseases or disorders include
 CC cardiovascular diseases, diseases of the central nervous system,
 CC gastrointestinal diseases, skin diseases, genitourinary diseases, joint
 CC diseases, respiratory diseases and HIV infection.
 XX Disclosure; Page 13; 89pp; English.
 PS XX The present invention relates to peptides (ABR44811-ABR47162 and
 CC ABR47164-ABR47385) derived from the Chemotaxis Inhibitory Protein (CHIPS)
 CC from Staphylococcus aureus. The peptide fragments are useful in the
 CC prophylaxis or treatment of diseases or disorders involving the
 CC C5a-receptor (C5aR) and/or formylated peptide receptor (FPR) or
 CC neutrophils, monocytes and endothelial cells or involving acute or
 CC chronic inflammation reactions. The diseases or disorders include
 CC cardiovascular diseases, disease of the central nervous system,
 CC gastrointestinal diseases, skin diseases, genitourinary diseases, joint
 CC diseases, respiratory diseases and HIV infection.
 XX Sequence 6 AA;
 SQ XX Query Match 80.6%; Score 25; DB 24; Length 6;
 Best Local Similarity 50.0%; Pred. No. 9.3e+05;
 Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 Qy 1 WXXWXF 6
 Db 1 WFFWWF 6
 RESULT 37
 ABR45537 standard; Peptide: 6 AA;
 ID XX ABR45537;
 AC XX ABR45537;
 DT XX 10-JUN-2003 (first entry)
 XX Staphylococcus aureus CHIPS-related peptide #727.
 DE XX CHIPS; Chemotaxis Inhibitory Protein; C5a-receptor; C5aR;
 ID KW formylated peptide receptor; FPR; neutrophil; monocyte; endothelial cell;
 KW inflammation; cardiovascular disease; central nervous system disease;
 KW gastrointestinal disease; skin disease; genitourinary disease;
 KW joint disease; respiratory disease; HIV infection; antiinflammatory;
 KW cardiant; cerebroprotective; neuroprotective; nootropic; dermatological;
 KW gynecological; immunosuppressive; anti-HIV.
 XX KW Staphylococcus aureus.
 OS KW Synthetic.
 PN XX WO2003006048-A1.
 XX KW

CC malignancy in an individual. AAM43707 to AAM47109 represent peptides
 CC which are used in the exemplification of the present invention.

CC	Best Local Similarity	100.0%;	Pred. No.	9.3e+05;	;	;	;	
CC	Matches	6;	Conservative	0;	Mismatches	0;	Indels	0;
XX	Sequence	7 AA;					Gaps	0;
SQ	Query Match	80.6%;	Score	25;	DB	22;	Length	7;
XX	Best Local Similarity	50.0%;	Pred. No.	9.3e+05;	;	;	;	;
XX	Matches	3;	Conservative	0;	Mismatches	3;	Indels	0;
Qy	1	WXXWXP	6					
Db	1	WRRWNF	6					
RESULT 42								
AAB01498	AAB01498	standard;	peptide;	9 AA.				
XX	XX							
AC	AAB01498;							
XX	DT	08-NOV-2000	(First entry)					
XX	XX	Peptide which binds to transcription factor E2F-1. DNA binding domain.						
XX	XX	DNA binding; transcription factor, E2F; E2F-1; cell cycle; DP-1; activation; transcription; apoptosis; proliferative disorder; psoriasis; restenosis.						
XX	XX	Synthetic.						
OS	PH	Key	Location/Qualifiers					
XX	FT	Misc-difference	2					
FT	FT	Misc-difference	2	/note= "Any amino acid"				
FT	FT	Misc-difference	3	/note= "Any amino acid"				
FT	FT	Misc-difference	5	/note= "Any amino acid"				
FT	FT	Misc-difference	7	/note= "Any amino acid"				
FT	FT	Misc-difference	8	/note= "Any amino acid"				
FT	FT	Misc-difference	8	/note= "Any amino acid"				
PN	W0200044771-A1.							
PD	03-AUG-2000.							
XX	XX	03-AUG-2000.						
PP	26-JAN-2000;	2000WO-GB00227.						
XX	XX	26-JAN-1999;	99GB-0001710.					
PR	(PROL-)	PROLIFIX LTD.						
XX	XX	Mueller R, Kontermann RE, Montigiani S;						
PS	PS	WPI; 2000-532806/48.						
XX	XX	WPI; 2000-532806/48.						
DR	DR	Peptides which bind to the DNA binding domain of transcription factor E2F and inhibiting cell cycle progression, useful for the treatment of cancer						
PT	PT	Peptides binding to the DNA binding domain of transcription factor E2F.						
PT	PT	Peptides which bind to the DNA binding domain of transcription factor E2F and inhibit cell cycle progression, useful for the treatment of cancer						
XX	XX	Peptides which bind to the DNA binding domain of transcription factor E2F and inhibit cell cycle progression may be useful as research agents to investigate the interaction between B2F and DP-1, or the activation of transcription by E2F-1/DP-1 heterodimers. They may also be used for inducing apoptosis and/or cell cycle arrest in a cell, particularly for treatment of cancer or other proliferative disorders such as psoriasis and restenosis.						
XX	XX	Peptides which bind to the DNA binding domain of transcription factor E2F and inhibit cell cycle progression may be useful as research agents to investigate the interaction between B2F and DP-1, or the activation of transcription by E2F-1/DP-1 heterodimers. They may also be used for inducing apoptosis and/or cell cycle arrest in a cell, particularly for treatment of cancer or other proliferative disorders such as psoriasis and restenosis.						
Sequence	Sequence	9 AA;	Score	25;	DB	21;	Length	9;
Query Match	Query Match							

Qy	1 WXXWF 6	Score 25; DB 21; Length 11;	Query Match	80.6%; Best Local Similarity 50.0%; Pred. No. 2.8e+02; Mismatches 0; Indels 0; Gaps 0;	Score 25; DB 18; Length 13;
Db	3 WWSWF 8.				
RESULT 44			RESULT 45		
AAW8112	AAW38112 standard; Peptide; 13 AA.		AAE07760	AAE07760 standard; peptide; 14 AA.	
ID			ID	AAE07760	
XX			XX		
AC	AAW38112;		AC	AAE07760;	
XX			XX		
DT	23-APR-1998 (first entry)		DT	06-NOV-2001 (first entry)	
XX	Dystrophin WW domain binding peptide 5.		XX	Human HLA-DP restricted T cell epitope #4 of NY ESO-1 protein.	
DE			DE		
XX			XX		
KW	Peptide recognition unit; WW domain; cell signalling; growth regulation; cytoskeleton organisation; targeted drug screening; modulator; WW domain interaction; dystrophin.		KW	major histocompatibility complex; MHC; vaccine; metastasis; class II restricted T cell epitope; MHC-II epitope; cancer antigen; NY ESO-1 protein; CD4+ T lymphocyte; human leucocyte antigen; HLA; tumour-specific humoral-mediated immunity; cancer; cytostatic; immunotherapy.	
XX			KW		
OS	Synthetic.		XX	Homo sapiens.	
XX			OS		
PN	W0973723-A1.		PN	WO200155393-A2.	
XX			PN		
PD	09-OCT-1997.		PD	02-AUG-2001.	
XX			XX		
PF	03-APR-1997; 97W0-US05547.		PF	26-JAN-2001; 2001WO-US02765.	
XX			XX		
PR	03-APR-1996; 96US-06-0916.		PR	28-JAN-2000; 2000US-017904.	
XX			PR		
PA	(CYTO-) CYTOGEN CORP.		XX	29-SEP-2000; 2000US-0237107.	
PA	(UTNC-) UNIV NORTH CAROLINA.		PA		
XX			PA	(USSH) US DEPT HEALTH & HUMAN SERVICES.	
PI	Fowlkes DM, Kay BK, Pirozzi G;		XX		
XX			PI	Wang R, Rosenberg SA, Zeng G;	
DR	1997-50-234/46.		XX		
XX			DR	WPI; 2001-496851/54.	
XX	Identifying cell signalling and growth regulatory polypeptides by reaction with multivalent recognition complex - polypeptides are useful in targeted drug selection		XX		
PS	Page 2; Page 78; 220pp; English.		PS	Claim 65; Page 82; 134pp; English.	
XX			XX		
CC	Peptides AAW38108-13 function as recognition units of the dystrophin WW domain. They were identified from a random peptide phage display library using the dystrophin WW domain as a probe. The peptides were used as probes themselves to screen a lambda-EX-10 mouse 16 day embryo cDNA expression library. In this way, cDNA clones expressing proteins containing WW domains, capable of binding to these peptides are identified. The WW domain is a small functional domain found in a large number of proteins from a variety of species including humans, nematodes and yeast. Its name is derived from the observation that two tryptophan residues, one in the amino terminal portion of the WW domain and one in the carboxyl terminal portion, are conserved. Most proteins containing WW domains have a function involving cell signalling and growth regulation or the organisation of the cytoskeleton. Polypeptides containing a WW domain are identified by treating a multivalent recognition unit complex that has selective binding affinity for a WW domain, with many polypeptides and identifying those with selective affinity for the complex. Peptides containing WW domains are used for targeted drug screening, i.e. to identify potential modulators of specific WW domain interactions. The valency of the recognition unit is important in determining specificity of interaction with WW domains. In peptides target WW domains similar, but not identical, to the sequence of the peptides, target WW can be detected, including new polypeptides.		CC	The invention relates to the identification and isolation of major histocompatibility (MHC) class II restricted T cell epitope (MHC-II epitope) derived from the cancer antigen, NY ESO-1. The MHC-II epitopes from NY ESO-1 are recognised by CD4+ T lymphocytes in an human leucocyte antigen (HLA) class II restricted manner, in particular HLA-DR or HLA-DP restricted. The products of the gene are promising candidates for immunotherapeutic strategies for the prevention, treatment and diagnosis of patients with cancer. The cancer epitopes are useful as immunogen and vaccine to inhibit or to prevent cancer in a mammal by eliciting CD4+ T lymphocytes resulting in protection of the cancer and/or by inhibiting the growth of cells expressing the NY-ESO-1 gene product. The cancer peptides are also useful as diagnostic agent to detect the presence of cancer, to enhance the generation of antibody and/or CD8+ T cell responses against any given target antigen and/or hapten and to induce tumour-specific humoral-mediated immunity against cancer. The present sequence is human HLA-DP restricted T cell epitope of NY ESO-1 protein.	
XX			XX		
PS	Example 2; Page 78; 220pp; English.		PS	Claim 65; Page 82; 134pp; English.	
XX			XX		
CC	Peptides AAW38108-13 function as recognition units of the dystrophin WW domain. They were identified from a random peptide phage display library using the dystrophin WW domain as a probe. The peptides were used as probes themselves to screen a lambda-EX-10 mouse 16 day embryo cDNA expression library. In this way, cDNA clones expressing proteins containing WW domains, capable of binding to these peptides are identified. The WW domain is a small functional domain found in a large number of proteins from a variety of species including humans, nematodes and yeast. Its name is derived from the observation that two tryptophan residues, one in the amino terminal portion of the WW domain and one in the carboxyl terminal portion, are conserved. Most proteins containing WW domains have a function involving cell signalling and growth regulation or the organisation of the cytoskeleton. Polypeptides containing a WW domain are identified by treating a multivalent recognition unit complex that has selective binding affinity for a WW domain, with many polypeptides and identifying those with selective affinity for the complex. Peptides containing WW domains are used for targeted drug screening, i.e. to identify potential modulators of specific WW domain interactions. The valency of the recognition unit is important in determining specificity of interaction with WW domains. In peptides target WW domains similar, but not identical, to the sequence of the peptides, target WW can be detected, including new polypeptides.		CC	The invention relates to the identification and isolation of major histocompatibility (MHC) class II restricted T cell epitope (MHC-II epitope) derived from the cancer antigen, NY ESO-1. The MHC-II epitopes from NY ESO-1 are recognised by CD4+ T lymphocytes in an human leucocyte antigen (HLA) class II restricted manner, in particular HLA-DR or HLA-DP restricted. The products of the gene are promising candidates for immunotherapeutic strategies for the prevention, treatment and diagnosis of patients with cancer. The cancer epitopes are useful as immunogen and vaccine to inhibit or to prevent cancer in a mammal by eliciting CD4+ T lymphocytes resulting in protection of the cancer and/or by inhibiting the growth of cells expressing the NY-ESO-1 gene product. The cancer peptides are also useful as diagnostic agent to detect the presence of cancer, to enhance the generation of antibody and/or CD8+ T cell responses against any given target antigen and/or hapten and to induce tumour-specific humoral-mediated immunity against cancer. The present sequence is human HLA-DP restricted T cell epitope of NY ESO-1 protein.	
XX			XX		
PS	Sequence 13 AA;		PS	Sequence 14 AA;	
XX			PS		
SQ	1 WXXWF 6		XX	Query Match 80.6%; Best Local Similarity 50.0%; Pred. No. 3.3e+02; Mismatches 0; Indels 0; Gaps 0;	

Db 3 WITWCF 8

Search completed: December 12, 2003, 10:29:03
Job time : 31.3 secs

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OM protein - protein search, using sw model

Run on: December 3, 2003, 11:48:05 ; Search time 26.3333 Seconds
 (without alignments)
 58.797 Million cell updates/sec

Title: US-09-912-414-11

Perfect score: 38

Sequence: 1 WXXWHF 6

Scoring table: BLOSUM62

Gapext 0.5

Searched: 830525 seqs, 258052604 residues

Total number of hits satisfying chosen parameters: 3526

Minimum DB seq length: 0

Maximum DB seq length: 15

POST-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : SPTRMBL23:

1: sp_archea:*

2: sp_bacteria:*

3: sp_fungi:*

4: sp_human:*

5: sp_invertebrate:*

6: sp_mammal:*

7: sp_mhc:*

8: sp_organelle:*

9: sp_phage:*

10: sp_plant:*

11: sp_rabbit:*

12: sp_virus:*

13: sp_vertebrate:*

14: sp_unclassified:*

15: sp_virus:*

16: sp_bacteria:*

17: sp_archae:*

17 17 44.7 14 6 Q9TQZ1
 18 17 44.7 14 11 Q9RIG8
 19 16 42.1 8 8 Q94TC1
 20 16 42.1 8 8 Q9TQD2
 21 16 42.1 8 8 Q9TQY2
 22 16 42.1 9 8 Q9TQ88
 23 16 42.1 10 2 Q47561
 24 16 42.1 10 8 Q9TQK7
 25 16 42.1 10 8 Q9TQNL
 26 16 42.1 10 8 Q79903
 27 16 42.1 10 8 Q8W969
 28 16 42.1 10 8 Q8WDH8
 29 16 42.1 10 8 Q9TB76
 30 16 42.1 10 8 P9TB13
 31 16 42.1 10 8 P9TB16
 32 16 42.1 10 8 Q9TBG8
 33 16 42.1 10 8 Q95K9
 34 16 42.1 10 8 Q9TQ9
 35 16 42.1 10 8 Q9TBX7
 36 16 42.1 10 8 Q95L2
 37 16 42.1 10 8 Q79885
 38 16 42.1 10 8 Q9TBQ5
 39 16 42.1 10 8 P9254
 40 16 42.1 10 8 Q9TB10
 41 16 42.1 10 8 Q9TBW8
 42 16 42.1 10 8 Q9TR4
 43 16 42.1 10 8 Q9TBm8
 44 16 42.1 10 8 Q9T8S1
 45 16 42.1 10 8 Q9T8S4

ALIGNMENTS

RESULT 1

P79940 PRELIMINARY; BRT; 8 AA.

ID P79940; AC P79940; DT 01-MAY-1997 (TREMBLrel. 03, Created)
 AC P79940; DT 01-MAY-1997 (TREMBLrel. 03, Last sequence update)
 AC P79940; DT 01-DEC-2001 (TREMBLrel. 19, Last annotation update)

DB XMeis1-4 Protein (Fragment)

OS Xenopus laevis (African clawed frog)

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Amphibia; Batrachia; Anura; Mesobatrachia; Pipoidea; Pipidae;
 OC Xenopodinae; Xenopus; Xenopus.

NCBI_TAXID=8355;

[1]

RN [1]

RP SEQUENCE FROM N.A.

RX MEDLINE=97202105; PubMed=9049632;

RA steelman S., Moscow J.J., Muzynski K., North C., Druck T.,
 RA Montgomery J.C., Ruehner K., Daar I.O., Buchberg A.M.;
 RT "Identification of a conserved family of Meis1-related homeobox
 RT genes." ;
 RT Genom Res. 7:142-156(1997).
 DR EMBL: U68389; AAB19199.1; -.

DR TRANSFAC: T04410; -.

FT NON_TER 1 1

FT SEQUENCE 8 AA; 1187 MW; 278BS1F37B11F40B CRC64;

P79940 xenopus laevis

09r5m1 scaphylococ

Q83836 bacteriophaga

Q8sh10 chamaeleo n

077919 pseudocrophi

Q16446 homo sapien

Q53550 rhodobacter

Q94y6 varanus job

Q8pr9 sparus aura

Q9mt61 allium cepa

Q9mr94 allium porr

Q9mzv1 allium sati

Q9mr81 aloë vera (

Q8hg11 gadus morhua

Q94v02 varanus pan

Q81pv3 deschampsia

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

%

Query Match Length DB ID Description

Result No.	Score	Match	Length	DB	ID	Description
1	22	57.9	8	P79940		P79940 xenopus laevis
2	21	55.3	9	Q9R5M1		09r5m1 scaphylococ
3	21	55.3	9	Q83836		Q83836 bacteriophaga
4	20	52.6	9	Q8SHF0		Q8sh10 chamaeleo n
5	20	52.6	12	077919		077919 pseudocrophi
6	20	52.6	13	Q16446		Q16446 homo sapien
7	19	52.6	15	Q53550		Q53550 rhodobacter
8	19	50.0	8	Q94y6		Q94y6 varanus job
9	19	50.0	10	Q9PRU9		Q8pr9 sparus aura
10	19	50.0	14	Q9MT61		Q9mt61 allium cepa
11	19	50.0	14	Q9MRV4		Q9mr94 allium porr
12	19	50.0	14	Q9MRV1		Q9mzv1 allium sati
13	19	50.0	14	Q9MRT8		Q9mr81 aloë vera (
14	19	50.0	14	Q8HG11		Q8hg11 gadus morhua
15	17	44.7	10	Q94VD2		Q94v02 varanus pan
16	17	44.7	13	Q8LPV3		Q81pv3 deschampsia

RESULT 2

Q9R5M1 PRELIMINARY; PRT; 9 AA.

ID Q9R5M1

AC Q9R5M1;

DT	01-MAY-2000	(TREMBLrel. 13, Created)	RA	Townsend T.M., Larson A.L.;
DT	01-MAY-2000	(TREMBLrel. 13, Last sequence update)	RT	"Molecular Phylogenetics and Mitochondrial Genomic Evolution in the
DT	01-JUN-2002	(TREMBLrel. 21, Last annotation update)	RT	Chamaeleonidae (Reptilia, Squamata)."
DT	66 kDa cell surface adhesin in heparan sulfate (Fragment).	RT	Submitted (NOV-2001) to the EMBL/GenBank/DBJ/GenBank databases.	
OS	Staphylococcus aureus.	DR	EMBL: AF448757; AAL90553.1; -.	
OS	Bacteria; Firmicutes; Bacillales; Staphylococcaceae.	DN	Mitochondrion.	
NCBI_TaxID=1280;	OX	FT	NON_TER 9 9	
[1]	RN	SEQUENCE	9 AA; 1205 MW; 358CB72733640733 CRC64;	
RP	RX	MEMLINE=92176005; PubMed=1541563;		
RA	Liang O.D., Ascencio P., Fransson L.A., Wadstrom T.;	RP	Score 20; DB 8; Length 9;	
RA	"Binding of heparan sulfate to Staphylococcus aureus.;"	RT	Best Local Similarity 50.0%; Pred. No. 8.3e+05;	
RL	Infect. Immun. 60:899-906(1992).	RT	Matches 2; Conservative 0; Mismatches 2; Indels 0; Gaps 0;	
FT	NON_TER 1 1	Qy	1 WXXW 4	
FT	NON_TER 9 9	Db	2 WLRW 5	
SQ	SEQUENCE 9 AA; 990 MW; 2289DDD7337861B3 CRC64;			
Query Match	55.3%; Score 21; DB 2; Length 9;	RESULT 5		
Best Local Similarity 50.0%; Pred. No. 8.3e+05;	Matches 2; Conservative 0; Mismatches 2; Indels 0; Gaps 0;	Qy	1 WXXW 4	
RP	RX	MEMLINE=92176005; PubMed=1541563;	ID	077919
RA	Liang O.D., Ascencio P., Fransson L.A., Wadstrom T.;	ID	077919; PRELIMINARY;	
RA	"Binding of heparan sulfate to Staphylococcus aureus.;"	AC	077919; Created)	
RL	Infect. Immun. 60:899-906(1992).	DT	01-NOV-1998 (TREMBLrel. 08, Last sequence update)	
FT	NON_TER 1 1	DT	01-NOV-1998 (TREMBLrel. 08, Last sequence update)	
FT	NON_TER 9 9	DT	01-DEC-2001 (TREMBLrel. 19, Last annotation update)	
SQ	SEQUENCE 9 AA; 990 MW; 2289DDD7337861B3 CRC64;	DE	MHC class II B locus 4 (Fragment).	
Query Match	55.3%; Score 21; DB 2; Length 9;	OS	Pseudotrophus sp. 'Pseudotrophus trocheops complex',	
Best Local Similarity 50.0%; Pred. No. 8.3e+05;	Matches 2; Conservative 0; Mismatches 2; Indels 0; Gaps 0;	OC	Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei; Cichlidae; Pseudotrophus.	
RP	RX	MEMLINE=92176005; PubMed=1541563;	NCBI_TaxID=51796;	[1]
RA	Liang O.D., Ascencio P., Fransson L.A., Wadstrom T.;	RP	SEQUENCE FROM N.A.	
RA	"Binding of heparan sulfate to Staphylococcus aureus.;"	RA	Malaga-Triollo E., Zalecka-Bartczynska Z., McAndrew B., Vincsek V., Figueiroa F., Sultmann H., Klein J.;	
RL	Infect. Immun. 60:899-906(1992).	RT	"Linkage relationships and haplotype polymorphism among cichlid mhc genes." (Fragment).	
FT	NON_TER 1 1	RT	Genetics 149:1527-1537(1998).	
FT	NON_TER 12 12	RN	DR EMBL: AF050032; AAC41371.1; -.	
SQ	SEQUENCE 12 AA; 1529 MW; 6C2ABFACD5ASB734 CRC64;	Qy	1 WXXW 4	
Query Match	55.3%; Score 20; DB 7; Length 12;	RESULT 6		
Best Local Similarity 50.0%; Pred. No. 2.3e+03;	Matches 2; Conservative 0; Mismatches 2; Indels 0; Gaps 0;	Qy	1 WXXW 4	
RP	RX	MEMLINE=88118956; PubMed=2963134;	ID	Q16406
RA	Buckley K.J., Hayashi M.;	ID	Q16406; PRELIMINARY;	
RA	"Role of premature translational termination in the regulation of	AC	Q16406; Created)	
RT	expression of the phiX174 lysis gene.;"	DT	01-NOV-1996 (TREMBLrel. 01, Last sequence update)	
RT	J. Mol. Biol. 198:599-607(1987).	DT	01-NOV-1996 (TREMBLrel. 01, Last sequence update)	
DR	EMBL: X07809; CAA30668.1; -.	DE	GRHR_R protein (Fragment).	
FT	NON_TER 9 9	GN	Homo sapiens (Human).	
SQ	SEQUENCE 9 AA; 1207 MW; C093B37731B36412 CRC64;	OS	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Butcher; Primates; Catarrhini; Hominidae; Homo.	
Query Match	55.3%; Score 21; DB 9; Length 9;	NCBI_TaxID=9606;	[1]	
Best Local Similarity 50.0%; Pred. No. 8.3e+05;	Matches 2; Conservative 0; Mismatches 2; Indels 0; Gaps 0;	Qy	1 WXXW 4	
RP	RX	MEMLINE=16001284; PubMed=7559877;	Q16406	SEQUENCE FROM N.A.
RA	Hashimoto K., Koga M., Motomura T., Kasayama S., Kouhara H., Mitohashi T., Arita N., Hayakawa T., Sato T., Yishimoto T.,	Q16406	"Identification of alternatively spliced messenger ribonucleic acid	
RA	Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Lepidosauria; Acrodonta; Chamaeleonidae; Chamaeleo. NCBI_TaxID=179917;	RN	SEQUENCE FROM N.A.	
OS	Mitochondrion.	RP		
OC	Bukaryota; Metazoa; Squamata; Ignania; Acrodonta; Chamaeleonidae; Chamaeleo.	RN		
OC	Chamaeleo namaquensis.	RP		
OS	Mitochondrion.	RN		
OC	Bukaryota; Chordata; Craniata; Vertebrata; Buteleostomi; Chamaeleonidae; Chamaeleo.	RP		
OC	Chamaeleo namaquensis.	RN		

RT encoding truncated growth hormone-releasing hormone receptor in human
 RT pituitary adenomas;
 RL J. Clin. Endocrinol. Metab. 80:2933-2939 (1995).
 DR EMBL: S73912; AAD14318.1; -.
 PT NON TER
 SQ SEQUENCE 13 AA; 1612 MW; CE19D7D255D66362 CRC64;
 Query Match 52.6%; Score 20; DB 4; Length 13;
 Best Local Similarity 50.0%; Pred. No. 2.5e+03;
 Matches 2; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 RESULT 9
 Q9PRU9 PRELIMINARY; PRT; 10 AA.
 Q9PRU9 ID Q9PRU9; PRELIMINARY; PRT; 10 AA.
 AC Q9PRU9; ID Q9PRU9; PRELIMINARY; PRT; 10 AA.
 DT 01-MAY-2000 (TREMBLrel. 13, Created)
 DT 01-MAY-2000 (TREMBLrel. 13, Last sequence update)
 DB Gonadotropin-releasing hormone, SBGNRH-I.
 OS Sparus aurata (Gilthead sea bream)
 OC Eukaryota: Metazoa: Chordata: Craniata: Vertebrata: Euteleostomi:
 OC Actinopterygii: Neopterygii: Teleostei: Butteleosteii: Neoteleosteii;
 OC Acanthomorpha: Acanthopterygii: Percormorpha: Perciformes; Percoidae;
 OC Sparidae: Sparus.
 RN [1]; NCBI_TaxID=8175;
 RP SEQUENCE.
 RA MEDLINE:95083645; PubMed:7991588;
 RA Powell J.F., Zohar Y., Elizur A., Park M., Fischer W.H., Craig A.G.,
 RA Sherwood N.M.;
 RA Rivier J.E., Lovelace D.A., Sherwood N.M.;
 RA "Three forms of gonadotropin-releasing hormone characterized from
 RT brains of one species";
 RL Proc. Natl. Acad. Sci. U.S.A. 91:12081-12085 (1994).
 SQ SEQUENCE 10 AA; 1132 MW; 8156685AB587735 CRC64;
 Query Match 50.0%; Score 19; DB 13; Length 10;
 Best Local Similarity 100.0%; Pred. No. 2.8e+03;
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 RESULT 10
 Q9MT61 PRELIMINARY; PRT; 14 AA.
 Q9MT61 ID Q9MT61; PRELIMINARY; PRT; 14 AA.
 AC Q9MT61; ID Q9MT61; PRELIMINARY; PRT; 14 AA.
 DT 01-OCT-2000 (TREMBLrel. 15, Created)
 DT 01-OCT-2000 (TREMBLrel. 15, Last sequence update)
 DT 01-OCT-2000 (TREMBLrel. 15, Last annotation update)
 DE PSI 9 kDa protein (Fragment).
 RN [1]; NCBI_TaxID=4679;
 RP SEQUENCE FROM N.A.
 OS Allium cepa (Onion).
 RC Chloroplast.
 RA Lopez-Serrano M., del Campo E.M., Sabater B., Martin M.;
 OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
 OC Spermatophyta; Magnoliophyta; Liliopsida; Asparagales; Alliaceae;
 OC Allium.
 RN [1]; NCBI_TaxID=4679;
 RP SEQUENCE FROM N.A.
 OS Varanus jobiensis.
 OG Mitochondrion.
 OC Eukaryota: Metazoa: Chordata: Craniata: Vertebrata: Euteleostomi:
 OC Lepidosauria: Squamata: Scleroglossa: Anguimorpha; Varanidae; Varanus.
 OC Cladistics 17:0-0 (2001).
 DR EMBL: AF407507; AAI10075.1; -.
 PT NON TER
 SQ SEQUENCE 8 AA; 1144 MW; EFD729DB436411A6 CRC64;
 Query Match 50.0%; Score 19; DB 8; Length 14;
 Best Local Similarity 100.0%; Pred. No. 3.8e+03;
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	4 WH 5		3 WH 4					
Db	3 WH 4							
RESULT 11								
Q9MRV4	PRELIMINARY;	PRT;	14 AA.					
ID	Q9MRV4							
AC	Q9MRV1;							
DT	01-OCT-2000 (TREMBLrel. 15, Created)							
DT	01-OCT-2000 (TREMBLrel. 15, Last sequence update)							
DT	01-OCT-2000 (TREMBLrel. 15, Last annotation update)							
DE	PSI 9 kDa protein (Fragment).							
GN	PSAC.							
OS	Allium porrum (Leek).							
OS	Chloroplast.							
OC	Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;							
OC	Spermatophyta; Magnoliophyta; Liliopsida; Asparagales; Aliiaceae;							
OC	Allium.							
OC	NCBI_TaxID=4681.							
RN								
RP	SEQUENCE FROM N.A.							
RC	TISSUE=Leaf;							
RA	Lopez-Serrano M., del Campo E.M., Sabater B., Martin M.;							
RT	"Conservation of the start codon by editing in ndHD-encoded							
RT	transcripts is not restricted to dicotyledonous plants."							
RT	Submitted (JUN-2000) to the EMBL/GenBank/DBJ databases.							
RL	EMBL; AJ278352; CAB96185.1; -.							
DR	EMBL; AJ278352; CAB96185.1; -.							
KW	Chloroplast.							
FT	NON_TER 1	1	1					
FT	SEQUENCE 14 AA;	1744 MW;	8F14FD03E3B7D911 CRC64;					
SQ	SEQUENCE 14 AA;	1	1					
Query Match	50.0%;	Score 19;	DB 8;	Length 14;				
Best Local Similarity	100.0%;	Pred. No. 3.8e-03;						
Matches	2;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;			
Qy	4 WH 5		3 WH 4					
Db	3 WH 4							
RESULT 12								
Q9MRV1	PRELIMINARY;	PRT;	14 AA.					
ID	Q9MRV1							
AC	Q9MRV1;							
DT	01-OCT-2000 (TREMBLrel. 15, Created)							
DT	01-OCT-2000 (TREMBLrel. 15, Last sequence update)							
DT	01-OCT-2000 (TREMBLrel. 15, Last annotation update)							
DE	PSI 9 kDa protein (Fragment).							
GN	PSAC.							
OS	Allium sativum (Garlic).							
OS	Chloroplast.							
OC	Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;							
OC	Spermatophyta; Magnoliophyta; Liliopsida; Asparagales; Aliiaceae;							
OC	Allium.							
OC	NCBI_TaxID=4682.							
RN								
RP	SEQUENCE FROM N.A.							
RC	TISSUE=Leaf;							
RA	Lopez-Serrano M., del Campo E.M., Sabater B., Martin M.;							
RT	"Conservation of the start codon by editing in ndHD-encoded							
RT	transcripts is not restricted to dicotyledonous plants."							
RT	Submitted (JUN-2000) to the EMBL/GenBank/DBJ databases.							
RL	EMBL; AJ278351; CAB96187.1; -.							
KW	Chloroplast.							
FT	NON_TER 1	1	1					
FT	SEQUENCE 14 AA;	1744 MW;	8F14FD03E3B7D911 CRC64;					
SQ	SEQUENCE 14 AA;	1	1					
Query Match	50.0%;	Score 19;	DB 8;	Length 14;				
Best Local Similarity	100.0%;	Pred. No. 3.8e-03;						
Matches	2;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;			
Qy	4 WH 5		3 WH 4					
RESULT 13'								
Q9MRT8	PRELIMINARY;	PRT;	14 AA.					
ID	Q9MRT8;							
AC	Q9MRT8;							
DT	01-OCT-2000 (TREMBLrel. 15, Created)							
DT	01-OCT-2000 (TREMBLrel. 15, Last sequence update)							
DT	01-OCT-2000 (TREMBLrel. 15, Last annotation update)							
DE	PSI 9 kDa protein (Fragment).							
GN	PSAC.							
OS	Aloe vera (Aloe) (Aloe barbadensis).							
OS	Chloroplast.							
OC	Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;							
OC	Spermatophyta; Magnoliophyta; Liliopsida; Asparagales; Asparagaceae;							
OC	Aloe.							
OC	NCBI_TaxID=34199;							
RN								
RP	SEQUENCE FROM N.A.							
RC	TISSUE=Leaf;							
RA	Lopez-Serrano M., del Campo E.M., Sabater B., Martin M.;							
RT	"Conservation of the start codon by editing in ndHD-encoded							
RT	transcripts is not restricted to dicotyledonous plants."							
RT	Submitted (JUN-2000) to the EMBL/GenBank/DBJ databases.							
RL	EMBL; AJ278353; CAB96192.1; -.							
KW	Chloroplast.							
FT	NON_TER 1	1	1					
FT	SEQUENCE 14 AA;	1744 MW;	8F14FD03E3B7D911 CRC64;					
SQ	SEQUENCE 14 AA;	1	1					
Query Match	50.0%;	Score 19;	DB 8;	Length 14;				
Best Local Similarity	100.0%;	Pred. No. 3.8e-03;						
Matches	2;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;			
Qy	4 WH 5		3 WH 4					
Db	3 WH 4							
RESULT 14								
Q8HG71	PRELIMINARY;	PRT;	14 AA.					
ID	Q8HG71;							
AC	Q8HG71;							
DT	01-MAR-2003 (TREMBLrel. 23, Created)							
DT	01-MAR-2003 (TREMBLrel. 23, Last sequence update)							
DT	01-MAR-2003 (TREMBLrel. 23, Last annotation update)							
DE	ATPase 8 (Fragment).							
OS	Gadus morhua (Atlantic cod).							
OG	Mitochondrion.							
OC	Eukaryota; Neopterygii; Teleostei; Euteleostei; Craniata; Vertebrata; Buteleostomi;							
OC	Actinopterygii; Acanthomorpha; Paracanthopterygii; Gadiformes; Gadidae; Gadus.							
OC	NCBI_TaxID=8049;							
RN								
RP	SEQUENCE FROM N.A.							
RC	Taylor M.I., Fox N.A., Rico C., Rico C.;							
RA	"Species-specific TaqMan probes for simultaneous identification of							
RT	(Gadus morhua L.), haddock (Melanogrammus aeglefinus L.) and whiting							
RT	(Merlangius merlangus L.)."							
RL	Mol. Ecol.							
DR	EMBL; AF526615; AAN850621.1; -.							
KW	Mitochondrion.							
FT	NON_TER 1	1	1					
FT	SEQUENCE 14 AA;	1753 MW;	8F14FD03E3B7D911 CRC64;					
SQ	SEQUENCE 14 AA;	1	1					
Query Match	50.0%;	Score 19;	DB 8;	Length 14;				
Best Local Similarity	100.0%;	Pred. No. 3.8e-03;						
Matches	2;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;			
Qy	4 WH 5		3 WH 4					

Db 13 WH 14

RESULT 15
Q94V02 PRELIMINARY; PRT; 10 AA.
ID Q94V02; AC Q94V02; DT 01-DBC-2001 (TrEMBLrel. 19, Created)
DT 01-DBC-2001 (TrEMBLrel. 19, Last sequence update)
DT 01-DBC-2001 (TrEMBLrel. 19, Last annotation update)
DE Cytochrome c oxidase subunit I (Fragment).
GN COI.
OS Varanus panoptes panoptes.
OG Mitochondrion.
OC Lepidosauria; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
OC Squamata; Scincoglossa; Anguimorpha; Varanidae; Varanus.
NCBI_TaxID=169849;
RN [1]
RP SEQUENCE FROM N.A.
RA AST J C.;
RT "Mitochondrial DNA evidence and evolution in Varanoidea (Squamata).";
RL Cladistics 17:0-0 (2001).
DR EMBL; AF407516; AA110102.1; -.
KW Mitochondrion.
FT NON_TER 10 10
SQ SEQUENCE 10 AA; 1299 MW; 5DEE80D4136411A7 CRC64;
Query Match 44.7%; Score 17; DB 8; Length 10;
Best Local Similarity 66.7%; Pred. No. 6+03;
Matches 2; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 4 WHP 6
Db -6 WRF 8

Search completed: December 3, 2003, 11:53:25
Job time : 27.3333 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: December 3, 2003, 11:44:20 ; Search time 33.6667 Seconds

(without alignments)

28.288 Million cell updates/sec

Title: US-09-912-414-11

Perfect score: 38

Sequence: 1 WXXWHF 6

Scoring table: BLOSUM62

Gapext 10.0 , Gapext 0.5

Searched: 1107863 seqs, 158726573 residues

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing First 45 summaries

Minimum DB seq length: 0

Maximum DB seq length: 15

Database : Total number of hits satisfying chosen parameters: 350435

A_Geneseq_19Jun03:*

1: /SIDS1/gcgdata/geneseq/geneseq/geneseq-emb1/AA1980.DAT:*

2: /SIDS1/gcgdata/geneseq/geneseq/geneseq-emb1/AA1981.DAT:*

3: /SIDS1/gcgdata/geneseq/geneseq/geneseq-emb1/AA1982.DAT:*

4: /SIDS1/gcgdata/geneseq/geneseq/geneseq-emb1/AA1983.DAT:*

5: /SIDS1/gcgdata/geneseq/geneseq/geneseq-emb1/AA1984.DAT:*

6: /SIDS1/gcgdata/geneseq/geneseq/geneseq-emb1/AA1985.DAT:*

7: /SIDS1/gcgdata/geneseq/geneseq/geneseq-emb1/AA1986.DAT:*

8: /SIDS1/gcgdata/geneseq/geneseq/geneseq-emb1/AA1987.DAT:*

9: /SIDS1/gcgdata/geneseq/geneseq/geneseq-emb1/AA1988.DAT:*

10: /SIDS1/gcgdata/geneseq/geneseq/geneseq-emb1/AA1989.DAT:*

11: /SIDS1/gcgdata/geneseq/geneseq/geneseq-emb1/AA1990.DAT:*

12: /SIDS1/gcgdata/geneseq/geneseq/geneseq-emb1/AA1991.DAT:*

13: /SIDS1/gcgdata/geneseq/geneseq/geneseq-emb1/AA1992.DAT:*

14: /SIDS1/gcgdata/geneseq/geneseq/geneseq-emb1/AA1993.DAT:*

15: /SIDS1/gcgdata/geneseq/geneseq/geneseq-emb1/AA1994.DAT:*

16: /SIDS1/gcgdata/geneseq/geneseq/geneseq-emb1/AA1995.DAT:*

17: /SIDS1/gcgdata/geneseq/geneseq/geneseq-emb1/AA1996.DAT:*

18: /SIDS1/gcgdata/geneseq/geneseq/geneseq-emb1/AA1997.DAT:*

19: /SIDS1/gcgdata/geneseq/geneseq/geneseq-emb1/AA1998.DAT:*

20: /SIDS1/gcgdata/geneseq/geneseq/geneseq-emb1/AA1999.DAT:*

21: /SIDS1/gcgdata/geneseq/geneseq/geneseq-emb1/AA2000.DAT:*

22: /SIDS1/gcgdata/geneseq/geneseq/geneseq-emb1/AA2001.DAT:*

23: /SIDS1/gcgdata/geneseq/geneseq/geneseq-emb1/AA2002.DAT:*

24: /SIDS1/gcgdata/geneseq/geneseq/geneseq-emb1/AA2003.DAT:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	35	92.1	6 21	AAB01505 peptide which bind
2	35	92.1	6 21	AAB01506 peptide which bind
3	34	89.5	6 21	AAB01492 peptide which bind
4	34	89.5	6 21	AAB01493 peptide which bind
5	29	76.3	6 24	Staphylococcus aur
6	29	76.3	6 24	Staphylococcus aur
7	28	73.7	6 18	Human angiopeptin
8	28	73.7	6 18	Opioid peptide. S
9	28	73.7	6 18	New peptide which

OS Synthetic.

XX WO20044771-A1.

XX 03-AUG-2000.

XX 26-JAN-2000; 2000WO-GB00227.

XX (PROL) PROLIFIX LTD.

XX PR Mueller R, Kontermann RE, Montigiani S;

XX PR WPI; 2000-332805/48.

PT Peptides binding to the DNA binding domain of transcription factor E2F and inhibiting cell cycle progression, useful for the treatment of

RESULT 1

ID AAB01505 standard; peptide; 6 AA.

XX AAB01505;

XX DT 08-NOV-2000 (first entry)

XX DB Peptide which binds to transcription factor E2F-1 DNA binding domain.

XX XX DNA binding; transcription factor; E2F; E2F-1; cell cycle; DP-1;

XX RW activation; transcription; apoptosis; proliferative disorder;

XX RW psoriasis; restenosis.

XX OS Synthetic.

XX XX WO20044771-A1.

XX XX 03-AUG-2000.

XX XX 26-JAN-1999; 99GB-0001710.

XX PR (PROL) PROLIFIX LTD.

XX PR Mueller R, Kontermann RE, Montigiani S;

XX PR WPI; 2000-332805/48.

PT Peptides binding to the DNA binding domain of transcription factor E2F and inhibiting cell cycle progression, useful for the treatment of

ALIGNMENTS

10	28	73.7	6 20	AAY23019 Opioid peptide whi
11	28	73.7	6 24	AAB01509 Staphylococcus aur
12	28	73.7	6 24	USS51813 peptide
13	28	73.7	6 20	Peptide SEQ ID 40
14	28	73.7	7 22	Antiproliferative
15	28	73.7	8 15	Antiproliferative
16	28	73.7	8 16	ZIF68 mutagenised
17	28	73.7	8 16	USS51813 peptide
18	28	73.7	8 19	Finger 3 binding s
19	28	73.7	8 20	Finger 3 binding s
20	28	73.7	8 20	Fluorescein bindin
21	28	73.7	12 21	Fluorescein bindin
22	28	73.7	12 22	Internalising pept
23	28	73.7	12 22	Peptide specific a
24	27	71.1	6 19	Staphylococcus aur
25	27	71.1	7 22	H11 binding site C
26	27	71.1	8 23	Staphylococcus aur
27	27	71.1	10 18	Human platelet gly
28	27	71.1	11 22	Fibrin binding pep
29	27	71.1	13 23	Granulocyte-colony
30	26	68.4	6 24	Oregon green 514 D
31	26	68.4	6 24	Dystrophin WW doma
32	26	68.4	6 24	Epitope derived fr
33	26	68.4	6 24	Fibrin binding pep
34	26	68.4	9 23	Streptococcus pneu
35	26	68.4	9 23	Human nucle
36	26	68.4	12 21	Human Arg contg. ant
37	26	68.4	12 21	Peptide for treat
38	26	68.4	13 18	Peptide which bind
39	26	68.4	15 20	Staphylococcus aur
40	26	68.4	15 23	Streptococcus pneu
41	26	68.4	15 23	Human nucle
42	25.5	67.1	15 23	ABP57721
43	25	65.8	6 13	AAR24966
44	25	65.8	6 15	AAR57391
45	25	65.8	6 21	AAB01493

XX
DN WO2003006048-A1.
XX
PD 23-JAN-2003.
XX
PF 11-JUL-2001; 2001WO-EP08004.
XX
PR 11-JUL-2001; 2001WO-EP08004.
XX
PA (JARI-) JARI PHARM BV.
XX
PI Van Kessel CPM, Gosselaar-de Haas CJC, Kruijzer JAW;
PI Van Strijp JAG;
XX
DR WPI; 2003-247783/25.
PT Combination of peptides derived from chemotaxis inhibiting protein from
PT Staphylococcus aureus (CHIPS) having CHIPS activity, useful in
PT prophylaxis and treatment of inflammation, cardiovascular, skin and
PT kidney diseases -
XX
PS Disclosure; Page 13; 89pp; English.
XX
CC The present invention relates to peptides (ABR44811-ABR47162 and
CC ABR4714-ABR47385) derived from the Chemotaxis Inhibitory Protein (CHIPS)
CC from Staphylococcus aureus. The peptide fragments are useful in the
CC prophylaxis or treatment of diseases or disorders involving the
CC C5a-receptor (C5aR) and/or formylated peptide receptor (FPR) or
CC neutrophils, monocytes and endothelial cells or involving acute or
CC chronic inflammation reactions. The diseases or disorders include
CC cardiovascular diseases, disease of the central nervous system,
CC gastrointestinal diseases, skin diseases, genitourinary diseases, joint
CC diseases, respiratory diseases and HIV infection.
XX
SQ Sequence 6 AA;
Query Match 73.7%; Score 28; DB 24; Length 6;
Best Local Similarity 50.0%; Pred. No. 9.3e+05;
Matches 3; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
Qy 1 WXXWHF 6
| : |
Db 1 WIFWF 6
XX
RESULT 14
AY01258
ID AAY01258 standard; peptide; 7 AA.
XX
AC AAY01258;
XX
DT 01-JUN-1999 (first entry)
XX
DE US5851813 peptide sequence number 45.
KW Antigenic composition; Primate; lentivirus; nef gene; vaccine;
KW infection; AIDS; SIVmac239; deletion; mutant.
XX
OS Simian immunodeficiency virus.
OS Synthetic.
XX
PN US5851813-A.
XX
PD 22-DEC-1998.
XX
PF 27-JAN-1994; 94US-0188583.
XX
PR 27-JAN-1994; 94US-0188583.
PR 12-JUL-1990; 90US-051945.
PR 09-JUL-1991; 91US-0727494.
XX
PA (HARD) HARVARD COLLEGE.
XX
PI Desbossiers RC;
XX
DR WPI; 1999-080408/07.
DR N-PSDB; AAX27557.
XX
PT Lentivirus antigenic compositions - containing lentivirus with nef
gene deletion
XX
PS Disclosure; Fig 5A-B; 93pp; English.
XX
CC The invention relates to an antigenic composition comprising an isolated
CC primate lentivirus whose genome contains an engineered non-revertible
CC null mutation in the nef gene, or an infectious DNA clone in a carrier.
CC The antigenic composition is used in vaccines against infection by the
CC lentivirus, e.g. AIDS.
XX
SQ Sequence 7 AA;
Query Match 73.7%; Score 28; DB 20; Length 7;
Best Local Similarity 60.0%; Pred. No. 9.3e+05;
Matches 3; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 1 WXXWH 5
| : |
Db 1 WBYWH 5
XX
RESULT 15
AAB49729
ID AAB49729 standard; peptide; 7 AA.
XX
AC AAB49729;
XX
DT 10-APR-2001 (first entry)
XX
DB Peptide SEQ ID 40 which binds to the TADG5 protein.
XX
TADG5; human; zinc finger; SH3 domain; cell signalling;
KW cell cycle control.
XX
OS Unidentified.
XX
WO200102432-A1.
XX
BD 11-JAN-2001.
XX
PP 30-JUN-2000; 2000WO-US18304.
XX
BR 01-JUL-1999; 99US-0346510.
XX
(UYAR-) UNIV ARKANSAS.
XX
O'Brien TJ, Wang Y;
XX
DR WPI; 2001-123102/13.
XX
PT Novel SH3 domain-containing TADG5 protein useful for regulating gene
PT replication, as a nutrition supplement, and as a marker for human
PT tissue, or in cell cycle control -
XX
PS Example 6; Page 36; 85pp; English.
XX
CC This invention relates to an SH3 domain-containing protein termed TADG5,
CC and its variants. The invention includes amino acid and polynucleotide
CC sequences for TADG5, and Oligonucleotides which bind to either the basic
CC amino acid region and/or the zinc finger motif of the TADG5 protein. The
CC basic amino acid region or zinc finger motif of TADG5 is useful for
CC regulating the expression of the TADG5 gene in a cell. The TADG5 protein
CC is useful as a source of amino acids, as a nutrition supplement, and as a
CC marker for human tissue, or in cell cycle control. TADG5 protein or
CC peptides generated from the protein sequence are useful as antigens for
CC the production of polyclonal and monoclonal antibodies. DNA encoding
CC TADG5 is useful as an antisense vehicle for cell cycle control by

shutting down signalling or cell division. The present sequence
represents a peptide identified from a phage display peptide library
through biopanning with the TADG5 protein.

XX SQ Sequence 7 AA;
Query Match Score 28; DB 22; Length 7;
Best Local Similarity 60.0%; Pred. No. 9.3e+05;
Matches 3; Conservative 0; Mismatches 2;
Indels 0; Gaps 0;
Qy 1 WXXWH 5
Db 3 | | |
WMDWH 7

Search completed: December 3, 2003, 11:51:16
Job time : 34.6667 secs

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GenCore version 5.1.6

4 protein - protein search, using SW model

on on: December 3, 2003, 11:48:35 ; Search time 11 Seconds
(without alignments)
52,456 Million cell updates/sec

title: US-09-912-414-11

perfect score: 38

Sequence: 1 WXXWFF 6

scoring table: BLOSUM62

cytochrome-c oxida
cytochrome-c oxida
bombezin - five-be
protochondroitin C
glucan 1,3-beta-91
Ig heavy chain V
T-cell receptor alpha
Ig kappa-1 chain J
Ig kappa chain J
Ig kappa chain J
leukocyte elastase
dermorphin (MP-4,
neuropeptide FPRFA
cytochrome-c oxida
cytochrome-c oxida
cytochrome-c Oxida

total number of hits satisfying chosen parameters: 2520
minimum DB seq length: 0
RESULT 1
S07241

Phyllomedusa rohdei Rohde's leaf frog
C:Species: Phyllomedusa rohdei (Rohde's leaf frog)
C:Date: 12-Feb-1993 #sequence_revision 12-Mar-1993 #text_change 18-Aug-2000

maximum reach 1000.
Listing first 45 summaries

Database : PIK-6;*
Author : Rondel-Littorin; A; Article:
Title : A new peptide from the skin of *Phyllomeusaa rondeletii*.
Reference number : S07241; MUID:85127560; PMID:3838283
Accession : S07241

- 3: pIR3;*
- 4: pIR4;*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES [View](#) [Edit](#) [Delete](#) [Details](#)

best w/oui similarity 0.95; freq. no. 2, avg. 3; Mismatches 3; Indels 0; Gaps 0; Matches 3; Conservative 0; Query .

1	23	60.5	9	2	S07241	litorin - Rohde's	α_2	-
2	22	57.9	9	2	S07205	litorin 2-Glu - Au	Db	3 WATCHF 8
3	22	57.9	9	2	S07205	litorin 2-Glu - Au	Db	3 WATCHF 8

				Cell surface antigens		
7	21	55.3	12	2	PH11308	Ig heavy chain DJ
8	20	52.6	12	2	PH11324	Ig heavy chain DJ

1-cell-specific Ig heavy chain DJ neuropeptide Grb-A
S61198 10 20 52.6 14 2 PH1322
D57444 11 18 47.4 9 2
C:Accession: S07205
C:Title: 12-EGD-1993 #sequence_revision 12-Mar-1993
C:Text_change 18-aug-2000
R:Anastassi, A.; Montecuccuzzi, P.; Angelucci, F.; Ersdamer, V.; Endean, R.

phospholipase A2 {
phenotypic variants:
cytochrome oxidase
A; Reference number:
A:Reference number:
A:Title: Glu(OME) (2'-l)atorin, the second bombesin-like peptide occurring in m
Experientia 33, 1289, 1977
MUTID: 427205; PMID: 908397

15	16	42.1	10	2	PQ0177	neuromedin C - lau	A; Accession: S07225	
16	16	42.1	10	2	A60647	neuromedin C - bov	A; Molecule type: protein	
17	16	42.1	10	2	T13975	cytochrome c oxidase	A; Residues: 1-9 cDNA	

F9/Modified site amidated carboxyl end (Met) #status experimental

RESULT 3

S07204 Litoria I - Australian tree frog (Litoria aurea)

C;Species: Litoria aurea

C;Date: 12-Feb-1993 #sequence_revision 12-Mar-1993 #text_change 18-Aug-2000

R;Anagarsi, A.; Erspamer, V.; Endean, R.

Experiencia 31, 510-511, 1975

A;Title: Aminoacid composition and sequence of litorin, a bombezin-like nonapeptide from A;Reference number: S07204; MUID:75187011; PMID:1140241

A;Accession: S07204

A;Molecule type: protein

A;Residues: 1-9 <ANA>

C;Superfamily: gastrin-releasing peptide

C;Keywords: amidated carboxyl end; neuropeptide; pyroglutamic acid

F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental

F;9/Modified site: amidated carboxyl end (Met) #status experimental

Query Match 57.9%; Score 22; DB 2; Length 9;

Best Local Similarity 50.0%; Pred. No. 2.8e+05; Indels 0; Gaps 0;

Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 WXXW⁶
Db 3 WAYGF⁸

RESULT 4

F49033 T-cell receptor gamma chain V-D-J region - human (fragment)

C;Species: Homo sapiens (man)

C;Date: 19-Dec-1993 #sequence_revision 17-Mar-2000 #text_change 17-Mar-2000

R;Morita, C.T.; Verma, S.; Aparicio, P.; Martinez, C.; Spits, H.; Brenner, M.B.

Eur. J. Immunol. 21, 299-3007, 1991

A;Title: Functionally distinct subsets of human gamma/delta T cells.

A;Reference number: A49033; MUID:92083926; PMID:1684157

A;Accession: F49033

A;Status: preliminary

A;Molecule type: DNA

A;Residues: 1-10 <MOR>

A;Cross-references: GB:S72605; NID:9240700; PIDN:AB20632.1; PMID:9240701

A;Note: sequence extracted from NCBI backbone (NCBIN:72605, NCBIPI:72605)

C;Keywords: T-cell receptor

Query Match 57.9%; Score 22; DB 2; Length 10;

Best Local Similarity 40.0%; Pred. No. 3.7e+02; Indels 0; Gaps 0;

Matches 2; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 WXXWH⁵
Db 4 WERWY⁸

RESULT 5

A60409 bombezin-like peptide I - frog (Pseudophryne guentheri)

C;Species: Pseudophryne guentheri

C;Date: 30-Jan-1993 #sequence_revision 30-Jan-1993 #text_change 18-Aug-2000

C;Accession: A60409

R;Simmaco, M.; Severini, C.; De Biase, D.; Barra, D.; Bossa, F.; Roberts, J.D.; Melchior Peptides 11, 299-304, 1990

A;Title: Six novel tachykinin- and bombezin-related peptides from the skin of the Austra

A;Reference number: A60409; MUID:90287814; PMID:2356157

A;Accession: A60409

A;Molecule type: protein

A;Residues: 1-13 <SIM>

C;Superfamily: unassigned animal peptides

C;Keywords: amidated carboxyl end; hormone; neuropeptide; pyroglutamic acid

F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental

F;13/Modified site: amidated carboxyl end (Met) #status experimental

Query Match 57.9%; Score 22; DB 2; Length 13;

Best Local Similarity 50.0%; Pred. No. 4.6e+02; Indels 0; Gaps 0;

Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 WXXW⁶
Db 7 WAVGHF¹²

RESULT 6

A43848 cell surface adhesin for heparan sulfate, 66K - Staphylococcus aureus (fragment)

C;Species: Staphylococcus aureus

C;Date: 10-Mar-1993 #sequence_revision 18-Nov-1994 #text_change 24-Feb-1995

C;Accession: A43848

R;Liang, O.D.; Ascencio, F.; Fransson, L.A.; Wadstrom, T.

Infec. Immun. 60, 899-906, 1992

A;Title: Binding of heparan sulfate to Staphylococcus aureus.

A;Reference number: A43848; MUID:92176005; PMID:1541563

A;Accession: A43848

A;Status: preliminary

A;Molecule type: protein

A;Residues: 1-9 <LIA>

A;Note: sequence extracted from NCBI backbone (NCBIP:85442)

Query Match 55.3%; Score 21; DB 2; Length 9;

Best Local Similarity 50.0%; Pred. No. 2.8e+05; Indels 2; Mismatches 2; Gaps 0;

Matches 2; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 1 WXXW⁴
Db 2 WTGW⁵

RESULT 7

PH1308 Ig heavy chain DJ region (clone C731-94) - human (fragment)

C;Species: Homo sapiens (man)

C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 07-May-1999

R;Wasserman, R.; Galili, N.; Ito, Y.; Reichard, B.A.; Shane, S.; Rovera, G.

J. Exp. Med. 176, 1577-1581, 1992

A;Title: Predominance of fetal type DJH joining in young children with B precursor lym

A;Reference number: PH1308

A;Accession: PH1308

A;Molecule type: DNA

A;Residues: 1-12 <WAS>

C;Keywords: heterotetramer; immunoglobulin

Query Match 55.3%; Score 21; DB 2; Length 12;

Best Local Similarity 40.0%; Pred. No. 6.2e+02; Indels 1; Mismatches 1; Gaps 0;

Matches 2; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 1 WXXWH⁵
Db 7 WGQWN¹¹

RESULT 8

PH1324 Ig heavy chain DJ region (clone C510-100) - human (fragment)

C;Species: Homo sapiens (man)

C;Accession: PH1324

R;Wasserman, R.; Galili, N.; Ito, Y.; Reichard, B.A.; Shane, S.; Rovera, G.

J. Exp. Med. 176, 1577-1581, 1992

A;Title: Predominance of fetal type DJH joining in young children with B precursor lym

A;Reference number: PH1324

A;Accession: PH1324

A;Molecule type: DNA

A;Residues: 1-12 <WAS>

C;Keywords: heterotetramer

Query Match 55.3%; Score 21; DB 2; Length 12;

Best Local Similarity 40.0%; Pred. No. 6.2e+02; Indels 1; Mismatches 1; Gaps 0;

Matches 2; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 1 WXXWH⁵
Db 7 WGQWN¹¹

A;Molecule type: protein
A;Residues: 1-9 <LQR>

Query Match Score 20; DB 2; Length 12;
Best Local Similarity 50.0%; Pred. No. 9e+02;
Matches 2; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 WXXW 4
Db 5 WYYW 8

RESULT 9

S61798
T-cell-specific transcription factor 1 splice form G - human (fragment)
N:Alternate names: transcription factor TCF-1G
C:Species: Homo sapiens (man)
C:Accession: 19-Mar-1997 #sequence_revision 18-Jul-1997 #text_change 24-Jul-1998
C:Accession: S61798; S61800
R;Mayer, K.; Wolff, B.; Clevers, H.; Ballhausen, W.G.
Biochim. Biophys. Acta 1263, 169-172, 1995
A;Title: The human high mobility group (HMG)-box transcription factor TCF-1: novel isoform
A;Reference number: S61796; MUID:95367594; PMID:7640309
A;Accession: S61798
A;Molecule type: mRNA
A;Residues: 1-13 <MAY>
A;Cross-references: EMBL:Z47364
A;Note: DNA was also sequenced
C;Keywords: alternative splicing; DNA binding; transcription factor

Query Match Score 20; DB 2; Length 13;
Best Local Similarity 50.0%; Pred. No. 9.7e+02;
Matches 2; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy -1 WXXW 4
Db 6 WDGW 9

RESULT 10

PH1322
19 heavy chain DJ region (clone C344-99) - human (fragment)
C:Species: Homo sapiens (man)
C:Accession: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 07-May-1999
R;Wasserman, R.; Galili, N.; Ito, Y.; Reichard, B.A.; Shane, S.; Rovera, G.
J. Exp.-Med. 176, 1577-1581, 1992
A;Title: Predominance of fetal type DJH joining in young children with B precursor lymph
A;Reference number: PH1302; MUID:93094761; PMID:1460419
A;Accession: PH1322
A;Residues: 1-14 <WAS>
C;Keywords: heterotetramer; immunoglobulin

Query Match Score 20; DB 2; Length 14;
Best Local Similarity 50.0%; Pred. No. 1e+03;
Matches 2; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 WXXW 4
Db 6 WDYW 9

RESULT 11

D57444
neuropeptide Grb-AST B4 - two-spotted cricket
C:Species: Gryllus bimaculatus (two-spotted cricket)
C:Accession: D57444
R;Lorenz, M.W.; Kellner, R.; Hoffmann, K.H.
J. Biol. Chem. 270, 21103-21108, 1995
A;Title: A family of neuropeptides that inhibit juvenile hormone biosynthesis in the cricket
A;Reference number: A57444; MUID:95403341; PMID:7673141
A;Accession: D57444
A;Status: preliminary

A;Molecule type: protein
A;Residues: 1-9 <LQR>

Query Match Score 18; DB 2; Length 9;
Best Local Similarity 40.0%; Pred. No. 2.8e+05;
Matches 2; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 WXXWH 5
Db 2 WERPH 6

RESULT 12

A29169
phospholipase A2 (EC 3.1.1.4) precursor - sheep (fragment)
C:Species: Ovis orientalis aries, Ovis ammon aries (domestic sheep)
C:Accession: A29169
R;Dutilh, C.E.; Van Doren, P.J.; Verheul, F.E.A.M.; De Haas, G.H.
Eur. J. Biochem. 53, 91-97, 1975
A;Title: Isolation and properties of phospholipase A2 from ox and sheep pancreas.
A;Reference number: A94661
A;Accession: A29169
A;Molecule type: protein
A;Residues: 1-12 <DUT>
C;Superfamily: carboxylic ester hydrolase
C;Keywords: phospholipase A2
F;1/Modified site: Pyrrolidine carboxylic acid (Gln) #status experimental
Query Match Score 17; DB 2; Length 12;
Best Local Similarity 66.7%; Pred. No. 2.8e+03;
Matches 2; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 4 WHF 6
Db 10 WQF 12

RESULT 13

PA0099
phenotypic variation protein - fungus (Fusarium sporotrichioides) (fragment)
C:Species: Fusarium sporotrichioides
C:Accession: PA0099
R;Chow, L.P.; Fukuya, N.; Sugiyura, Y.; Ueno, Y.; Tabuchi, K.; Tsugita, A.
submitted to JIPD, October 1994
A;Description: Two dimensional polyacrylamide gel electrophoresis of Fusarium sporotrichioides
A;Reference number: PA0051
A;Accession: PA0099
A;Molecule type: protein
A;Residues: 1-15 <CHO>

Query Match Score 17; DB 2; Length 15;
Best Local Similarity 66.7%; Pred. No. 3.3e+03;
Matches 2; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 4 WHF 6
Db 5 WEF 7

RESULT 14

T13818
cytochrome oxidase subunit I - Atlantic halibut mitochondrial (fragment)
C:Species: mitochondrial Myxine glutinosa (Atlantic halibut)
C:Accession: T13818
R;Delarbree, C.; Barriel, V.; Tillier, S.; Janvier, P.; Gachelin, G.
Mol. Biol. Evol. 14, 807-813, 1997
A;Title: The main features of the ctenoid mitochondrial DNA between the ND1 and the C1
A;Reference number: 217775; MUID:97398704; PMID:9254918
A;Accession: T13818
A;Status: preliminary; translated from GB/EMBL/DBJ

A; Molecule type: DNA
 A; Residues: 1-8
 C; Cross-references: EMBL:Y09527, NID:92340019, PID:CAA70718.1, PID:92340022
 C; Genetics:
 A; Genome: mitochondrial
 A; Ntce: COI
 C; Keywords: mitochondrial

Query Match 42.1%; Score 16; DB 2; Length 8;
 Best Local Similarity 66.7%; Pred. No. 2.8e+05;
 Matches 2; Conservative 0; Mismatches -1; Indels 0; Gaps 0;
 Qy 4 WHP 6
 |
 Db 6 WHP 8

RESULT 15
 PQ0177
 neuropeptid C - laughing frog
 C;Species: Rana ridibunda (laughing frog)
 C;Date: 23-Nov-1991 #sequence_revision 23-Nov-1991 #text_change 11-Jan-2000
 C;Accession: PQ0177
 R;Conlon, J.M.; O'Harte, F.; Vaudry, H.
 Biochem. Biophys. Res. Commun. 178, 526-530, 1991
 A;Title: Primary structures of the bombesin-like neuropeptides in frog brain show that b
 A;Reference number: PQ0177; MUID:91315477; PMID:1899413
 A;Accession: PQ0177
 A;Molecule type: protein
 A;Residues: 1-10 <CON>
 A;Experimental source: brain
 C;Superfamily: Gastrin-releasing peptide
 C;Keywords: amidated carboxyl end (Met) #status predicted
 F;10/Modified site: amidated carboxyl end (Met) #status predicted

Query Match 42.1%; Score 16; DB 2; Length 10;
 Best Local Similarity 40.0%; Pred. No. 3.4e+03;
 Matches 2; Conservative 0; Mismatches -3; Indels 0; Gaps 0;
 Qy 1 WXXWH 5
 |
 Db 4 WAVGH 8

Search completed: December 3, 2003, 11:54:09
 Job time : 12 secs

Result No.	Score	Query Match	Length	DB ID	Description
1	23	60.5	9	1 LITR PHYRO	P08946 phyllomedus
2	23	60.5	11	1 RANC_RANPI	P08951 rana pipien
3	22	57.9	9	1 LITR_LITRAU	P08945 litoria aur
4	22	57.9	13	1 BOML_PSEGU	P42991 pseudophry
5	21	55.3	10	1 LABA_JATMU	P13270 jatropa mu
6	19	50.0	9	1 COW_COWVE	P83047 conus ventr
7	16	42.1	10	1 GON2_CHEPR	P806778 chelyosoma
8	16	42.1	10	1 GRP_FANRI	P23250 rana ridibu
9	16	42.1	14	1 ALIT_ALIXOB	P08944 alytes obst
10	15	39.5	15	1 RML2_YEAST	P36522 saccharomy
11	14	36.8	10	1 FARP_MYTID	P42550 mytilus edu
12	14	36.8	11	1 CA22_LITCI	P82088 litoria cit
13	14	36.8	11	1 CA22_LITCI	P82092 litoria cit
14	14	36.8	11	1 MIL_Thefts	P41989 thermozon
15	14	36.8	13	1 CXA2_CONGE	P01520 conus geogr
16	14	36.8	13	1 MLA_ANOCA	P41589 anolis caro
17	14	36.8	13	1 MLA_CANDR	P01198 camelus dro
18	14	36.8	15	1 AHA_PRUSE	P29260 prunus sero
19	14	36.8	15	1 DCMN_PSECH	P19917 pseudomas
20	13	34.2	10	1 APE_CAPGI	P80474 capnocytop
21	13	34.2	10	1 GON1_ALLMI	P37041 alligator m
22	13	34.2	10	1 GON2_CHICK	P37043 gallus gall
23	13	34.2	10	1 GON3_ONCKE	P20357 oncorhynchu
24	13	34.2	12	1 URA_CATCO	P04558 catostomus
25	13	34.2	12	1 URB_CATCO	P04559 catostomus
26	13	34.2	12	1 URB_CYPCA	P04561 cyprinus ca
27	13	34.2	12	1 URB_GILMI	P01147 gillichthys
28	13	34.2	12	1 URB_POLSP	P81022 polyodon sp
29	13	34.2	12	1 URB_SCYCA	P35490 scyliorhinu
30	13	34.2	15	1 UC16_MAIZAE	P80622 zea mays (m
31	12	31.6	6	1 LOK1_LOCM1	P41491 locusta mig
32	12	31.6	8	1 LCK2_LEDMA	P21141 leucophaea
33	12	31.6	8	1 LCK3_LEDNA	P19987 leucophaea

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5
Searched: 127863 seqs, 47026705 residues
Total number of hits satisfying chosen parameters: 795
Minimum DB seq length: 0
Maximum DB seq length: 15
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing First 45 summaries
Database : SwissProt_41:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

RESULT 1									
LITR PHYRO		STANDARD;		PRT;		9 AA.		ALIGNMENTS	
ID	LITR PHYRO	AC	P08946;	DT	01-NOV-1988 (Rel. 09, Created)				
				DT	01-FEB-1994 (Rel. 28, Last sequence update)				
				DT	15-SEP-2003 (Rel. 42, Last annotation update)				
				DE	Rhodei-litorin.				
				OS	Phyllomedusa rohdei (Rohde's leaf frog).				
				OC	Bukaryote; Metazoa; Chordata; Craniata; Vertebrata; Butteleostomi; Amphibia; Batrachia; Anura; Neobatrachia; Bufonoidea; Hyliidae; Phyllomedusinae; Phyllomedusa.				
				NCBI_TaxID	8334;				
				OX					
				RN					
				RP	SEQUENCE.				
				RC	TISSUE=Skin secretion;				
				RX	MEDLINE=95127560; PubMed=3838283;				
				RA	Barra D., Ersigamer G.F., Simmaco M., Bossa F., Melchiorri P., Ersigamer V.;				
				RA	"Rohdei-litorin: a new peptide from the skin of Phyllomedusa rohdei."				
				RT	FEBS Lett. 182:53-56 (1985).				
				RL					
				CC	-1- SUBCELLULAR LOCATION: Secreted.				
				CC	-1- TISSUE SPECIFICITY: Skin.				
				CC	-1- SIMILARITY: BELONGS TO THE BOMBESIN/NEUROMEDIN B/RANATENSIN FAMILY.				
				CC					
				PIR	S07241; S07241.				
				DR	InterPro: IPR00874; Bombesin.				
				DR	Protein: P002044; Bombesin.				
				DR	DR				
				DR	Proteins: PS00275; Bombesin; 1.				
				KW	Amphibian defense peptide; Bombesin family; Amidation;				
				KW	Pyrrrolidone carboxylic acid.				
				FT	1 PYRROLIDONE CARBOXYLIC ACID.				
				MOD_RES	1 AMIDATION.				
				SQ	9 SEQUENCE 9 AA; 1090 MW; 4ECCC1E861ADC377 CRC64;				
				Query Match	60.5%;	Score 23;	DB 1;	Length 9;	
				Best Local Similarity	50.0%;	Pred. No. 1.3e+05;			
				Matches 3;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;	
				QY	1 WXXWHP 6				
				Db	3 WATGHF 8				

RESULT 2									
RANC_RANPI		STANDARD;		PRT;		11 AA.		ALIGNMENTS	
ID	RANC_RANPI	AC	P08951;	DT	01-NOV-1988 (Rel. 09, Created)				
				DT	01-NOV-1988 (Rel. 09, Last sequence update)				
				DT	15-SEP-2003 (Rel. 42, Last annotation update)				
				DE	Ranatensin-C.				
				OS	Rana pipiens (Northern leopard frog).				
				OC	Bukaryote; Metazoa; Chordata; Craniata; Vertebrata; Butteleostomi; Amphibia; Batrachia; Anura; Neobatrachia; Bufonoidea; Ranidae; Rana;				
				NCBI_TaxID	84040;				
				OX					

[1] RN
SEQUENCE; TISSUE-Skin secretion;
MEDLINE=84131098; Published=6141890;
RA Nakajima T.;
Unpublished results, cited by:
RL Erspamer V., Erspamer G.F., Mazzanti G., Endean R.;
Comp. Biochem. Physiol. 77C:99-108 (1984).
-|- SUBCELLULAR LOCATION: Secreted.
CC -|- TISSUE SPECIFICITY: Skin.
CC -|- SIMILARITY: BELONGS TO THE BOMBESIN/NEUROMEDIN B/RANATENSIN FAMILY.
DR InterPro; IPR000874; Bombesin.
PRAM; PF02044; Bombesin; 1.
DR PROSITE; PS00257; BOMBESIN; 1.
KW Amphibian defense peptide; Bombesin family; Amidation.
FT MOD RES 11 AMIDATION.
SQ SEQUENCE 11 AA; 1304 MW; D6C9885A61ADC366 CRC64;

Query Match 57.9%; Score 22; DB 1; Length 9;
Best Local Similarity 50.0%; Pred. No. 1.3e+05;
Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 WXXWHP 6
Db 3 WAVGHF 8

RESULT 4
SEQUENCE; TISSUE=Skin secretion;
MEDLINE=2355157; PRT; 13 AA.
ID BOML_PSEGU
ID BOML_PSEGU STANDARD; PRT;
AC P42951;
ID P42951; (Rel. 32, Created)
DT 01-NOV-1995 (Rel. 32, Last sequence update)
DT 01-NOV-1995 (Rel. 32, Last annotation update)
DT 15-FEB-2003 (Rel. 42, Last annotation update)
DE Bombesin-like Peptide L (PG-L).
OS Pseudophryne guentheri (Guenther's toadlet).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Butelostomi; Amphibia; Batrachia; Anura; Neobatrachia; Butoidea; Myobatrachidae; Myobatrachae; Pseudophryne.
OC NCBITaxonID=30349;
OX NCBI_TaxID=30349;
RN [1] -

RP SEQUENCE.
RC TISSUE=Skin secretion;
RX MEDLINE=9026784; PubMed=2355157;
RA Simmaco M., Severini C., de Biase D., Barra D., Bossa F.,
RA Roberts J.D., Melchiorri P., Erspamer V.;
RT "Six novel tachykinin- and bombesin-related peptides from the skin of the Australian frog Pseudophryne guntheri." Peptides 11:293-301(1990).
RL -|- SUBCELLULAR LOCATION: Secreted.
CC -|- TISSUE SPECIFICITY: Skin.
CC -|- SIMILARITY: BELONGS TO THE BOMBESIN/NEUROMEDIN B/RANATENSIN FAMILY.
DR PIR; A60409; A60409.
DR InterPro; IPR000874; Bombesin.
PRAM; PF02044; Bombesin; 1.
DR PROSITE; PS00257; BOMBESIN; 1.
KW Amphibian defense peptide; Bombesin family; Amidation;
FT PYRROLIDONE CARBOXYLIC ACID.
KW Pyrrolidone carboxylic acid.
DE MOD RES 1 AMIDATION.
FT MOD RES 13 AMIDATION.
SQ SEQUENCE 13 AA; 1372 MW; D6DE024BD98C366 CRC64;

Query Match 57.9%; Score 22; DB 1; Length 13;
Best Local Similarity 50.0%; Pred. No. 1.6e+02;
Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 WXXWHP 6
Db 7 WAVGHF 12

RESULT 5
SEQUENCE; TISSUE=Skin secretion;
MEDLINE=75187011; PubMed=1140241;
RA Anastasi A., Erspamer V., Endean R.;
RT "Aminoacid composition and sequence of litorin, a bombesin-like nonapeptide from the skin of the Australian leptodactylid frog Litoria aurea.";
RT Experientia 31:510-511 (1975).
RN [2] -

RP SEQUENCE (METHYLATED VARIANT).
RX TISSUE=Skin secretion;
MEDLINE=7800546; PubMed=903397;
RA Anastasi A., Montecuccchi P.C., Angelucci F., Erspamer V., Endean R.;
RT "Glu(Ome)-3-litorin, the second bombesin-like peptide occurring in methanol extracts of the skin of the Australian frog Litoria aurea.";
RT Experientia 33:1289-1289 (1977).
-|- SUBCELLULAR LOCATION: Secreted.
CC -|- TISSUE SPECIFICITY: Skin.
CC -|- SIMILARITY: BELONGS TO THE BOMBESIN/NEUROMEDIN B/RANATENSIN FAMILY.
DR PIR; S07204; S07204.
DR InterPro; IPR000874; Bombesin.
PRAM; PF02044; Bombesin; 1.
PROSITE; PS00257; BOMBESIN; 1.
KW Amphibian defense peptide; Bombesin family; Amidation; Methylation; Pyrrolidone carboxylic acid.
FT MOD RES 1 PYRROLIDONE CARBOXYLIC ACID.
FT MOD RES 2 METHYLATION (PARTIAL).
FT MOD RES 9 AMIDATION.
SQ SEQUENCE 9 AA; 1103 MW; D7CC1E862CDC366 CRC64;

OS Jatrophida (Physic nut).
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicots; eudicots; Rosidae; eurosids I; Malpighiales; Euphorbiaceae; Jatrophida.
OX NCBITaxonID=3996;
RN [1] -

RP SEQUENCE.
RC TISSUE=Latex;
RA Kosasih S., van der Sluis W.G., Boelens R., T'Hart L.A., Labadie R.P.;
RT "Labadin, a novel cyclic decapeptide from the latex of Jatropha multifida L. (Euphorbiaceae). Isolation and sequence determination

RT by means of two-dimensional NMR.";

RL PEBs Lett. 25:91-95 (1989).

CC -!- FUNCTION: LABADITIN IS AN ACTIVE PEPTIDE WHICH INHIBITS THE CLASSICAL PATHWAY OF COMPLEMENT ACTIVATION IN VITRO. ACTIVITY SEEMS TO BE BASED ON AN INTERACTION WITH C1.

CC -!- PTM: This is a cyclic peptide.

CC -!- DISEASE: LATEX OF THIS PLANT IS USED IN FOLKLORIC MEDICINE FOR TREATMENT OF INFECTED WOUNDS, SKINS INFECTIONS AND SCABIES.

SEQUENCE 10 AA;

Query Match 55.3%; Score 21; DB 1; Length 10;

Best Local Similarity 50.0%; Pred. No. 1.9e+02;

Matches 2; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 WXXW 4

Db 4 WTVW 7

RESULT 6

COW CONVE STANDARD PRT; 9 AA.

ID P83741; AC P83741; FT 16-OCT-2001 (Rel. 40, Created)

DT 16-OCT-2001 (Rel. 40, Last sequence update)

DT 28-FEB-2003 (Rel. 41, Last annotation update)

DB Contryphan-Vn.

OS Conus ventricosus (Mediterranean cone)

OC Apogastropoda; Caenogastropoda; Gastropoda; Orthogastropoda;

OC Neogastropoda; Conoidea; Conidae; Conus.

NCBI_TaxID=117992; [1]

RN RP SEQUENCE, SYNTHESIS, AND MASS SPECTROMETRY.

RC TISSUE=Venom;

RX MEDLINE=21547785; PubMed=11688995;

RA Massilia G.R., Schinina M.E., Ascenzi P., Politicelli F.;

RT "Contryphan-Vn: a novel peptide from the venom of the Mediterranean snail Conus ventricosus.";

RT Biochem. Biophys. Res. Commun. 288:908-913 (2001).

CC -!- SUBCELLULAR LOCATION: Secreted.

CC -!- TISSUE SPECIFICITY: Expressed by the venom duct.

CC -!- MASS SPECTROMETRY: MW=1088.6; METHOD=MALDI.

CC -!- SIMILARITY: BELONGS TO THE CONTRYPHAN FAMILY.

KW Toxin; Amidation; D-amino acid.

FT DISULFID 3 9 D-Tryptophan.

FT MOD RES 5 5 AMIDATION.

FT MOD RES 9 9 AMIDATION.

SEQUENCE 9 AA; 1091 MW; 8D38676323676EBA CRC64;

Query Match 50.0%; Score 19; DB 1; Length 9;

Best Local Similarity 50.0%; Pred. No. 1.3e+05;

Matches 2; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 WXXW 4

Db 5 WKW 8

RESULT 7

GON2_CHEPR STANDARD PRT; 10 AA.

ID GON2_CHEPR AC P80678; FT 01-NOV-1997 (Rel. 35, Created)

DT 01-NOV-1997 (Rel. 35, Last sequence update)

DT 28-FEB-2003 (Rel. 41, Last annotation update)

DE Gonadoliberin II (Gonadotropin-releasing hormone II) (GnRH-II) (Luliberin II).

OS Chelyosoma productum.

OC Eukaryota; Metazoa; Chordata; Urochordata; Ascidiacea; Enterogona;

OC Phleopodbranchia; Corellidae; Chelyosoma.

NCBI_TaxID=71177; [1]

RP SEQUENCE.

RX MEDLINE=96413669; PubMed=8816822;

RA Powell J.F.F., Reska-Skinner S.M., Prakash M.O., Fischer W.H., Park M., Rivier J.E., Craig A.G., Mackie G.O., Sherwood N.M.;

RA "Two new forms of gonadotropin-releasing hormone in a protochordate and the evolutionary implications."

RT Proc. Natl. Acad. Sci. U.S.A. 93:10461-10464 (1996).

RL -!- FUNCTION: Stimulates the secretion of gonadotropins; it stimulates the secretion of both luteinizing and follicle-stimulating hormones.

CC -!- SUBUNIT: Homodimer; disulfide-linked.

CC -!- SUBCELLULAR LOCATION: Secreted.

CC -!- TISSUE SPECIFICITY: GnRH neurons lie within blood sinuses close to the gonoducts and gonads in both juveniles and adults, implying that the neuropeptide is released into the bloodstream.

CC -!- MASS SPECTROMETRY: MW=1117.52; METHOD=MALDI.

CC -!- SIMILARITY: Belongs to the GnRH family.

DR PROSITE; PS00473; GNRH_1.

DR InterPro; IPR02012; GNRH.

DR InterPro; IPR02012; GNRH.

DR PROSITE; PS00473; GNRH_1.

KW Hormone; Amidation; Pyrrolidone carboxylic acid.

FT MOD RES 1 1 PYRROLIDONE CARBOXYLIC ACID.

FT DISULFID 6 6 INTERCHAIN.

FT MOD RES 10 10 AMIDATION (BY SIMILARITY).

FT SEQUENCE 10 AA; 1135 MW; 284B38D1EEB75A3 CRC64;

Query Match 42.1%; Score 16; DB 1; Length 10;

Best Local Similarity 40.0%; Pred. No. 1.4e+03;

Matches 2; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 WXXWH 5

Db 3 WSLCH 7

RESULT 8

GRP_RANRI STANDARD PRT; 10 AA.

ID GRP_RANRI AC P23760; DT 01-NOV-1991 (Rel. 20, Created)

DT 01-NOV-1991 (Rel. 20, Last sequence update)

DT 28-FEB-2003 (Rel. 41, Last annotation update)

DB Neuromedin C.

OS Rana ridibunda (Laughing frog) (Marsh frog).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Butelostomidae; Amphibia; Batrachia; Anura; Neobatrachia; Ranidae; Rana.

NCBI_TaxID=8406; OX [1]

NCBI_TaxID=8406; OX [1]

RP SEQUENCE.

RC TISSUE=Brain;

RX MEDLINE=91315477; PubMed=1859413;

RA Conlon J.M., O'Harte F., Vaudry H.;

RT "Primary structures of the bombesin-like neuropeptides in frog brain show that bombesin is not the amphibian gastrin-releasing peptide.";

RL Biochem. Biophys. Res. Commun. 178:526-530 (1991).

CC -!- SUBCELLULAR LOCATION: Secreted.

CC -!- SIMILARITY: BELONGS TO THE BOMBESIN/NEUROMEDIN B/RANATENSIN FAMILY.

CC PIR; PQ0177; PQ0177.

DR InterPro; IPR000874; Bombesin.

DR Pfam; PF02044; Bombesin; 1.

DR PROSITE; PS0057; BOMBESIN; 1.

KW Bombesin family; Amidation.

FT MOD RES 10 10 AMIDATION.

FT SEQUENCE 10 AA; 1094 MW; F81BAE862CDC371 CRC64;

Query Match 42.1%; Score 16; DB 1; Length 10;

Best Local Similarity 40.0%; Pred. No. 1.3e+03;

Matches 2; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 WXXWH 5

Db 4 WAUGH 8

RESULT 9	Qy	1 WXXWHF 6
ALYT_ALYOB	Db	1 WXXGIF 6
ID STANDARD; PRT; 14 AA.		
AC P08944;		
DT 01-NOV-1988 (Rel. 09, Created)		
DT 01-FEB-1994 (Rel. 28, Last sequence update)		
DT 15-SEP-2003 (Rel. 42, Last annotation update)		
DE Alytesin.		
OS Alytes obstetricans (Midwife toad).		
OC Amphibia; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;		
OC Amphibia; Batracia; Anura; Archeobatrachia; Discoglossidae; Alytes.		
OX NCBI_TaxID=8443;		
RN [1]		
RP SEQUENCE.		
RC TISSUE-Skin secretion; MEDLINE=84131098; PubMed=6141890;		
RX Ersperger V., Ersperger G.F., Mazzanti G., Endean R.;		
RT "Active peptides in the skins of one hundred amphibian species from Australia and Papua New Guinea.";		
RT Comp. Biochem. Physiol. 77C:99-108(1994).		
RLJ -; SUBCELLULAR LOCATION: Secreted.		
CC -; TISSUE SPECIFICITY: Skin.		
CC -; SIMILARITY: BELONGS TO THE BOMBESIN/NEUROMEDIN B/RANATENSIN FAMILY.		
DR InterPro: IPR000874; Bombezin.		
DR Pfam: PF02044; Bombezin_1.		
DR PROSITE; PS00257; BOMBESIN_1.		
KW Amphibian defense peptide; Bombezin family; Amidation;		
KW Pyrrolidone carboxylic acid.		
FT MOD_RES 1 1 PYRROLIDONE CARBOXYLIC ACID.		
FT MOD_RES 14 14 14 MW; DIC4E43AF:129666 CRC64;		
FT SQ SEQUENCE 14 AA; 1554 MW; DIC4E43AF:129666 CRC64;		
Query Match Score 16; DB 1; Length 14; Best Local Similarity 40.0%; Pred. No. 1.7e+03; Matches 2; Conservative 0; Mismatches 3; Indels 0; Gaps 0;		
Qy 1 WXXWHF 5	Qy 5 HF 6	RESULT 12
Db 8 WAVGH 12	Db 6 HF 7	CA22_LITCI STANDARD; PRT; 11 AA.
		AC P82058;
		DT 16-OCT-2001 (Rel. 40, Created)
		DT 16-OCT-2001 (Rel. 40, Last sequence update)
		DT 15-SEP-2003 (Rel. 42, Last annotation update)
		DE Caerulein 2.2/2.2/4.
		OS Litoria citropa (Australian blue mountains tree frog).
		OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
		OC Amphibia; Batracia; Anura; Neobatrachia; Bufonoidea; Hyliidae;
		OC Peletryadinae; Litoria.
		NCBI_TaxID=94770;
		OX RN SEQUENCE, AND MASS SPECTROMETRY.
		RC TISSUE=Skin secretion;
		RC MEDLINE=20057701; PubMed=10509099;
		RX Wabnitz, P.A.; Bowie, J.H.; Tyler, M.J.;
		RT "Caerulein-like peptides from the skin glands of the Australian blue montane tree frog Litoria citropa. Part 1. Sequence determination using electrospray mass spectrometry.",
		RT Rapid Commun. Mass Spectrom. 13:2498-2502(1999).
		RL CC -; SUBCELLULAR LOCATION: Secreted.
		CC -; TISSUE SPECIFICITY: Skin dorsal glands.
		CC -; PTM: Isoform 2.2/4 differs from isoform 2.2 in not being sulfated.
		CC -; MASS SPECTROMETRY: MW=1188; METHOD=Electrospray.
		CC -; SIMILARITY: BELONGS TO THE GASTRIN/CHOLECYSTOKININ FAMILY.
		DR InterPro: IPR01651; Gastrin.
		DR PROSITE; PS00259; GASTRIN; FALSE NEG.
		KW Amphibian defense peptide; Hypotensive agent; Amidation; Sulfation;
		KW Pyrrolidone carboxylic acid.
		FT MOD_RES 1 PYRROLIDONE CARBOXYLIC ACID.

FT MOD_RES 4 4 SULFATION.
 FT MOD_RES 11 11 AMIDATION.
 SQ SEQUENCE 11 AA; 1328 MW; 10DAB94ED861BB CRC64;
 Query Match Score 14; DB 1; Length 11;
 Best Local Similarity 100.0%; Pred. No. 3e+03;
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 5 HF 6
 Db 8 HF 9

RESULT 13
 CA42_LITCI STANDARD; PRT; 11 AA.
 ID CA42_LITCI
 AC P8202;
 DT 16-OCT-2001 (Rel. 40, Created)
 DT 16-OCT-2001 (Rel. 40, Last sequence update)
 DT 15-SEP-2003 (Rel. 42, Last annotation update)
 DB Caerlein 4.2/4.2Y4.
 OS Litoria citropa (Australian blue mountains tree frog).
 OC Amphibia; Batrachia; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Eukaryota; Metazoa; Anura; Neobatrachia; Butonoidea; Hylidae;
 OC Peloderyadinae; Litoria.
 OC NCBI_TaxID=94770;
 RN [1]
 RP SEQUENCE, AND MASS SPECTROMETRY.
 RC TISSUE=Skin secretion;
 RX MEDLINE=20057701; PubMed=10583099;
 RA Wabnitz P.A.; Bowie J.H.; Tyler M.J.;
 RT "Caerulein-like peptides from the skin glands of the Australian blue
 mountains tree frog Litoria citropa. Part 1. Sequence determination
 using electrospray mass spectrometry."
 RT Rapid Commun. Mass Spectrom. 13:2438-2502 (1999).
 RL CC FUNCTION: HYPOTENSIVE NEUROPEPTIDE (PROBABLE).
 CC -!- SUBCELLULAR LOCATION: Secreted.
 CC -!- TISSUE SPECIFICITY: Skin dorsal glands.
 CC -!- PTM: Isoform 4.2Y4 differs from isoform 4.2 in not being
 sulfated.
 CC -!- MASS SPECTROMETRY: MW=1404; METHOD=Electrospray.
 CC -!- SIMILARITY: BELONGS TO THE GASTRIN/CHOLECYSTOKININ FAMILY.
 DR InterPro: IPR001651; Gastrin.
 DR PROSITE; PS00239; Gastrin; FALSE_NEG.
 RW Amphibian defense peptide; Hypotensive agent; Amidation; Sulfation;
 KW Pyrrolidone carboxylic acid.
 FT MOD_RES 1 1 PYRROLIDONE CARBOXYLIC ACID.
 FT MOD_RES 4 4 SULFATION.
 FT MOD_RES 11 11 AMIDATION.
 SQ SEQUENCE 11 AA; 1344 MW; 10DAB94F5B861BB CRC64;
 Query Match Score 14; DB 1; Length 11;
 Best Local Similarity 100.0%; Pred. No. 3e+03;
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 5 HF 6
 Db 8 HF 9

RESULT 14
 MLG_-THETS STANDARD; PRT; 11 AA.
 ID MLG_-THETS
 AC P41919;
 DT 01-NOV-1995 (Rel. 32, Created)
 DT 01-NOV-1995 (Rel. 32, Last sequence update)
 DT 16-OCT-2001 (Rel. 40, Last annotation update)
 DE Melanotropin Gamma (Gamma-melanocyte stimulating hormone) (Gamma-MSH).
 OS Theromyzon tessulatum (Leech).
 OC Rhynchosobellida; Glossiphoniidae; Hirudinea;
 OC Rhynchosobellida; Annelida; Cliteillata; Hirudinida; Theromyzon.
 OC NCBI_TaxID=13286;
 RN [1]

RP SEQUENCE.
 RC TISSUE=brain; PubMed=8026574;
 RA Salze M.; Wattiez C.; Bulet P.; Malecha J.;
 RT "Isolation and structural characterization of a novel peptide related
 to gamma-melanocyte stimulating hormone from the brain of the leech
 Theromyzon tessulatum."
 RT PEBS Lett. 348:102-105 (1994).
 CC -!- SIMILARITY: BELONGS TO THE POMC FAMILY.
 DR PIR; S45698; S45698.
 KW Hormone; Amidation.
 MOD RES 11 11 AMIDATION.
 FT SEQUENCE 11 AA; 1406 MW; 2DB8FACE6409C1E8 CRC64;

Query Match Score 14; DB 1; Length 11;
 Best Local Similarity 100.0%; Pred. No. 3e+03;
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 5 HF 6
 Db 5 HF 6

RESULT 15
 CXA2_CONGE STANDARD; PRT; 13 AA.
 ID CXA2_CONGE
 AC P01520;
 DT 21-JUL-1986 (Rel. 01, Created)
 DT 21-JUL-1986 (Rel. 01, Last sequence update)
 DT 28-FEB-2003 (Rel. 41, Last annotation update)
 DE Alpha-conotoxin GTI.
 OS Conus geographus (Geography cone).
 OC Eukaryota; Metazoa; Mollusca; Gastropoda; Orthogastropoda;
 OC Apogastropoda; Ctenogastropoda; Soriococoncha; Hypsogastropoda;
 OC Neogastropoda; Conoidea; Conidae; Conus.
 NCBI_TaxID=6491;
 RN [1]
 RP SEQUENCE.
 RX MEDLINE=11194854; PubMed=7014556;
 RA Gray W.R.; Luque A.; Olivera B.M.; Barrett J.; Cruz L.J.;
 RT "Peptide toxins from Conus geographus venom."
 RL J. Biol. Chem. 256:4734-4740 (1981).
 RN [2]
 RP DISULFIDE BONDS.
 RX MEDLINE=64280842; PubMed=6466616;
 RA Gray W.R.; Luque F.A.; Galvean R.; Atherton E.; Sheppard R.C.,
 RT Stone B.L.; Reyes A.; Alford J.; McIntosh M.; Olivera B.M.,
 RA Cruz L.J.; Rivier J.;
 RT "Conotoxin GI: disulfide bridges, synthesis, and preparation of
 iodinated derivatives";
 RL Biochemistry 23:2796-2802 (1994).
 CC -!- FUNCTION: Alpha-conotoxins act on postsynaptic membranes, they
 bind to the nicotinic acetylcholine receptors (nAChR) and thus
 inhibit them.
 CC -!- SUBCELLULAR LOCATION: Secreted.
 CC -!- TISSUE SPECIFICITY: Expressed by the venom duct.
 CC -!- SIMILARITY: BELONGS TO THE A-SUPERFAMILY OF CONOTOXINS. ALPHA-TYPE
 CC FAMILY.
 DR PIR; A01783; NTKN2G.
 DR HSSP; P56973; 1B45.
 KW Postsynaptic neurotoxin; Neurotoxin; Toxin;
 KW Acetylcholine receptor inhibitor; Amidation.
 PT DISULFID 2 7
 FT DISULFID 3 13 AMIDATION.
 MOD RES 13 13
 SQ SEQUENCE 13 AA; 1422 MW; DEBB831C39297EBD CRC64;

Query Match Score 14; DB 1; Length 13;
 Best Local Similarity 100.0%; Pred. No. 3.4e+03;
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 5 HF 6

Db 10 HF 11

Search completed: December 3, 2003, 11:51:52
Job time : 8.33333 secs